

## Phase 2 Intrusive Site Investigation

27 February 2023

### **La Rose Homes Limited**

Land adjacent to Charnwood, 259 High Road, Whaplode, Spalding, PE12 6TG

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Supervised by Mr Joseph Turner

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## **1. Introduction**

The following document is a Phase 2 Intrusive Site Investigation carried out by Oakshire Environmental, and includes details of the site, sampling methodology, ground conditions, an evaluation of risk and an assessment of further investigations.

### **1.1 Project Overview**

The client's proposed project involves erection of a dwelling and detached garage on land adjacent to Charnwood, 259 High Road, Whaplode, Spalding, PE12 6TG. Following the identification of potential contaminant linkages at the site, an intrusive site investigation has been recommended. Oakshire Environmental will carry out a Phase 2 Intrusive Site Investigation, as described below.

### **1.2 Purpose of Investigation**

The objectives of the Phase 2 Intrusive Site Investigation will be to:

- Establish the context and setting of development at the site.
- Identify and assess the nature and extent of contamination risk at the site.
- Assess the suitability of the pragmatic approach for ground gas risk.
- Determine the requirement for further investigations, remediation or mitigation measures.

### **1.3 Scope of Work**

- Brief introductory information will be noted to provide context to the report and will include an Introduction, Project Overview, Scope of Work and Limitations.
- Assess the site and previous investigations, to establish the context and setting of development.
- In order to identify the nature and extent of contamination, 5 x samples will be taken down to below made ground or a maximum depth of ~2m and analysed for Metals (As,Be,Cd,Cu,Pb,Hg,Ni,Se,V,Zn), Chromium (III & VI), Phenols, PAHs, BTEX & MTBE, TPH CWG (Aliphatic/ Aromatic), pH, Semi Volatile Organic Compounds (SVOCs) inc TICs, Volatile Organic Compounds (VOCs), Asbestos (Qualitative) and Organic Matter in a UKAS accredited laboratory.
- Ground conditions encountered at the site, including identification of groundwater and made ground, will be noted and used to inform recommendations and conclusions.
- Results of laboratory testing will be assessed with reference to suitable screening values, including LQM/CIEH Suitable 4 Use Levels (S4ULs), CL:AIRE Category 4 Screening Levels (C4SLs) and Generic Assessment Criteria (GAC).
- This information will be used to update the Conceptual Site Model, produced as part of previous investigations to categorise the severity of consequence and probability of identified contaminant linkages, and conduct an evaluation of contamination risk to assess the suitability of the pragmatic approach for ground gas risk and determine the requirement for further investigations, remediation or mitigation measures.
- Supporting appendix to include photographs, maps and plans of the site.

## 1.4 Limitations

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This report excludes consideration of potential hazards arising from any activities at the site other than normal use and occupancy for the intended land uses. Hazards associated with any other activities have not been assessed and must be subject to a specific risk assessment by the parties responsible for those activities. Oakshire Environmental does not warrant or guarantee that the site is free of hazardous or potentially hazardous materials or conditions. It should be noted that this report has been produced for environmental purposes only.

Oakshire Environmental cannot be held responsible for incorrect analysis of samples as the laboratory analysis presented in this report was carried out by Chemtech Environmental Ltd. The information and conclusions provided in this report are limited to, and representative of, the samples taken and cannot be extended to apply to the whole site, in addition, Oakshire Environmental cannot guarantee the accuracy of analysis for samples not taken at the source by the company or those which deviate due to exceedance of holding time or inappropriate sampling practises. The findings and/or recommendations of this report do not take into account any conditions that may be present but have hitherto not been encountered and as such further investigation and/or a reconsideration of the findings of this report should be undertaken if such conditions are subsequently encountered or an alternative development plan or land use is subsequently proposed.

## **2. Site**

The following section provides a description of the site and location, proposed project and previous investigations, utilising information obtained from the client and publicly available sources.

### **2.1 Site Description and Location**

The site is located on land adjacent to Charnwood, 259 High Road, Whaplode, Spalding, PE12 6TG, and is comprised of an approximately 0.03ha soft landscaped area, formerly the private garden of the adjacent dwelling.

The site is bordered by residential dwellings and gardens to the east, south and west and High Road to the north. No Environmentally Sensitive Sites, Ecological Protection Zones, Ramsar Sites or Special Areas of Conservation were identified on or within 250m of the proposed development, in addition, no Conservation Areas, Listed Buildings or Scheduled Ancient Monuments were identified on or within 50m of the proposed development.

National Grid Reference: 532471, 324298

### **2.2 Proposed Development**

The client's proposed project involves erection of a dwelling and detached garage with associated access, parking and landscaping.

### **2.3 Previous Investigations**

A Phase 1 Desk Study Report was carried out by STM Environmental Consultants in May 2022. This assessment considered there to be a moderate to risk to future occupiers, visitors and construction workers and a low to moderate risk to buildings and services from potential contaminants associated with the site history and potential made ground as well as adjacent uses such as orchards, corn mill, landfill, petrol station and infilled ground. The assessment recommended that an intrusive site investigation is undertaken with the objective of determining the presence and extent of any soil contamination at the site.

Based on the findings of the Phase 1 Desk Study Report, Oakshire Environmental has carried out sampling of soil at the site, which has been tested for a comprehensive suite of contaminants including Metals (As, Be, Cd, Cu, Pb, Hg, Ni, Se, V, Zn), Chromium (III & VI), Phenols, PAHs, BTEX & MTBE, TPH CWG (Aliphatic/ Aromatic), pH, Semi Volatile Organic Compounds (SVOCs) inc TICs, Volatile Organic Compounds (VOCs), Asbestos (Qualitative) and Organic Matter.

### **3. Methodology**

#### **3.1 Sampling Work**

Trial pits were dug at the locations shown on plans in the appendix, with ground conditions noted during the sampling process to inform recommendations and conclusions.

Soil samples were collected using a window sampler and soil was then collected from the sampler and placed into sealed sample containers. Samples collected for VOC analysis were filled as much as possible to minimise air spaces, as volatile compounds can be lost into these spaces. Sampling equipment was wiped clean between sample locations to minimise cross contamination.

#### **3.2 Sampling Strategy**

Five samples was considered to be a sufficient sample size, based on the size of the site, proposed use areas and the levels of contamination expected. Locations were chosen to focus on the proposed soft landscaping and buildings areas, while providing coverage of the whole site.

A range of sample depths were chosen to allow identification of variability through the soil profile. Shallow soil in proposed soft landscaping areas at the site was sampled as this will represent the soil that is most likely to impact future site users through inhalation, ingestion and dermal contact pathways. In addition, deeper samples in proposed soft landscaping and buildings areas were collected to determine the risk to future site users and the proposed building from the ingress of vapours and ground gases and allow assessment of the nature and extent of made ground at the site.

#### **3.3 Health & Safety**

When collecting soil samples on a potentially contaminated site it must be assumed that the soil is contaminated in order to protect the health of the assessor. Protective rubber gloves were worn at all times as well as substantial footwear. Equipment was washed thoroughly before and after use and kept in a container when transported to avoid the spread of any possible contamination. Sample containers were packed with biodegradable fill for protection and placed in a sealed plastic container for transportation to the laboratory.

### **4. Ground Conditions**

Surface cover across the site was comprised of grass and topsoil at the north and centre, consisting of dark brown sandy clay with roots to a depth of 0.6m, while topsoil at the south of the site was comprised of dark brown silty clay with black smears to a depth of 0.5m. Beneath topsoil at the north, black brown sandy clay mixed with light brown sand was encountered to a depth of 1.2m, above light brown silty clay to the end of the trial pit at 1.5m, while black brown silty clay was identified at the centre and south to depths of between 0.6m and 0.7m. A layer of light brown sand was encountered at the south to a depth of 0.9m, followed by black silty clay to the end of the trial pit at 1.4m.

Made ground was identified in all trial pits at depths between 0.6m and 1.5m and comprised brick fragments.

No groundwater was encountered in any of the trial pits.

Detailed trial pit logs are provided in Appendix A.

## 5. Evaluation of Results

### 5.1 Screening Values

Results of laboratory testing of soil samples were analysed by comparing them to industry standard screening levels used for risk assessments. Screening levels used include the DEFRA Category 4 Screening Levels (C4SLs) based on Low Level of Toxicological Risk and the LQM/CIEH S4ULs for Human Health Risk Assessment. These levels cover multiple Soil Organic Matter (SOM) contents (1%, 2% and 6%) and assume a pH of 8. The 'residential with plant uptake' screening values were used to assess results. This land use considers direct soil and indoor dust ingestion and inhalation, skin contact with soils and dust, inhalation of vapours and ingestion of homegrown produce as exposure pathways. These levels take a conservative approach to assessing potential risk and concentrations below these screening values can be considered to represent 'uncontaminated conditions' which pose 'LOW' risk to human health based on the proposed land use.

It is important to note that exceedance of a relevant screening value does not necessarily constitute evidence of either a 'significant possibility of significant harm' or the need for remediation under the UK's planning regimes. Rather such exceedance should usually trigger a further detailed quantitative risk assessment, where site-specific parameters are used to derive site-specific assessment criteria. Common sense tells us, and a robust risk evaluation reveals, that a gross exceedance is a good indicator that an unacceptable risk is present.

### 5.2 Summary of Results

- Lead concentration exceeded the residential screening value in sample S05
- Mercury concentration exceeded the residential screening value in sample S05
  - It should be noted that this is based on the 'worst-case' screening value based on Elemental Mercury and it is considered unlikely that any Mercury present in the soil would exist in this form
- pH was alkaline in all samples
- Phenols (total) concentrations were all below the laboratory limit of detection suggesting they may not be present at all
- Total Organic Carbon values were low in all samples
  - This suggests that the underlying soil and made ground material has a low organic matter content and contains little degradable material
- PAH concentrations were all below the residential screening values in sample S07
  - Elevated PAH concentrations are likely to be the result of contaminated made ground material in these locations, particularly where bituminous material was identified
- BTEX concentrations were all below the laboratory limit of detection
- VPH concentrations were all below the laboratory limit of detection
- EPH concentrations were generally very low and there were no exceedances of the residential screening values
  - It should be noted that concentrations were highest in samples S06 and S07 but these were still below the residential screening values

### 5.3 Risk Assessment Methodology

The potential level of risk posed by a particular source is determined by assessing the potential severity of the impact of the contaminant linkage on the receptor, if it is assumed to be present, and the probability of the contaminant linkage being present.

Severities are categorised from Minor to Severe and probabilities are categorised from Unlikely to High Likelihood to give a potential level of risk output.

Table 1: Risk Matrix

| Probability     | Severity of Consequence |                     |                     |                     |
|-----------------|-------------------------|---------------------|---------------------|---------------------|
|                 | Severe                  | Medium              | Mild                | Minor               |
| High Likelihood | Very High Risk          | High Risk           | Moderate Risk       | Low / Moderate Risk |
| Likely          | High Risk               | Moderate Risk       | Low / Moderate Risk | Low Risk            |
| Low Likelihood  | Moderate Risk           | Low / Moderate Risk | Low Risk            | Very Low Risk       |
| Unlikely        | Low / Moderate Risk     | Low Risk            | Very Low Risk       | Very Low Risk       |

#### *Very High Risk*

There is a high probability that severe harm could arise to a designated receptor from an identified source; or there is evidence that severe harm to a designated receptor is currently happening.

#### *High Risk*

Harm is likely to arise to a designated receptor from an identified source.

#### *Moderate Risk*

It is possible that harm could arise to a designated receptor from an identified source. It is relatively unlikely that any such harm would be severe or if any harm were to occur it is more likely that the harm would be relatively mild.

#### *Low Risk*

It is possible that harm could arise to a designated receptor from an identified source, however, it is likely that this harm, if realised, would normally be mild.

#### *Very Low Risk*

There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

## 5.4 Conceptual Site Model

The information in this section has been compiled to produce an initial conceptual site model outlining the potential sources, pathways and receptors to consider at the site. The level of risk was categorised by considering the severity and probability, as outlined in the previous section.

Table 2: Conceptual site model

| Sources                                                                                                                                                                           | Pathways                                              | Receptors                   | Severity | Probability    | Potential Level of Risk |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|----------|----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potential contaminants associated with site history such as potential made ground and adjacent uses such as orchards, a corn mill, landfill, a petrol station and infilled ground | Ingestion of soils, garden vegetables and dust        | Future Occupiers & Visitors | Medium   | Low Likelihood | Low to Moderate         | Elevated concentrations of Lead and Mercury were identified in sample S05 taken from made ground material at a depth of 1m. This area will form the rear garden of the proposed dwelling, therefore, a potential pathway to residential end users will exist. It is noted, however, that the depth of this contamination and the absence of contamination in the shallower sample taken from this location suggests that the pathway may be limited. |
|                                                                                                                                                                                   | Ingestion of contaminated drinking water              |                             |          |                |                         | The low organic matter content and limited quantity of identified made ground at the site suggests that it will not present a credible risk to future occupiers and visitors from ground gas production through the degradation of putrescible material.                                                                                                                                                                                             |
|                                                                                                                                                                                   | Derma! absorption                                     | Construction Workers        | Medium   | Unlikely       | Low                     | The historical landfill to the east of the site is not likely to pose a significant risk from ground gas permeation into the buildings as the impermeable underlying geology is comprised of cohesive soils which will inhibit the migration of ground gases.                                                                                                                                                                                        |
|                                                                                                                                                                                   | Inhalation of dusts and vapours indoors and outdoors  |                             |          |                |                         | While elevated concentrations of contaminants have been identified, the risk to construction workers can be appropriately mitigated by the use of suitable PPE.                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                   | Migration of ground gases and vapours into properties | Buildings and Services      | Mild     | Low Likelihood | Low                     | The low organic matter content and limited quantity of identified made ground at the site suggests that it will not present a credible risk to the proposed dwelling and garage from ground gas production through the degradation of putrescible material.                                                                                                                                                                                          |
|                                                                                                                                                                                   | Attack on water supply service pipes                  |                             |          |                |                         | The low organic matter content and limited quantity of identified made ground at the site suggests that it will not present a credible risk to the proposed dwelling and garage from ground gas production through the degradation of putrescible material.                                                                                                                                                                                          |

## 6. Conclusions

### 6.1 Risk Evaluation

The conceptual site model has identified the following contaminant linkages present at the site and the following conclusions have been drawn:

- There is a **low to moderate risk** to future occupiers & visitors from the ingestion of soils, garden vegetables and dust, ingestion of contaminated drinking water, dermal absorption, inhalation of dusts and vapours indoors and outdoors, migration of ground gases and vapours into properties.
- There is a **low risk** to construction workers from the ingestion of soils, garden vegetables and dust, ingestion of contaminated drinking water, dermal absorption, inhalation of dusts and vapours indoors and outdoors, migration of ground gases and vapours into properties.
- There is a **low risk** to buildings and services from migration of ground gases and vapours through the unsaturated zone, attack on water supply service pipes.

### 6.2 Further Investigation

Based on laboratory testing of soil samples from the site, the updated conceptual site model and the currently proposed development plan, the risk to future occupiers & visitors from heavy metal contamination in the rear garden at the south of the site and off-site ground gas generation is considered to be low to moderate and, therefore, remediation is considered necessary.

Further investigation is recommended, in the form of a Phase 3 Remediation Options Appraisal, to include analysis of feasible remediation options to address contamination risk at the site. It is important to note that this conclusion is based on the proposed development plan.

## 7. References

**Environment Agency** *Land contamination: risk management*. [online] Available at: <gov.uk/guidance/land-contamination-how-to-manage-the-risks>.

**Oakshire Environmental, 2022.** *Phase 1 Preliminary Risk Assessment*.

**DEFRA, 2014.** *Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination*. London: Department for the Environmental and Rural Affairs

**Nathanail, C.P.; McCaffrey, C.; Gillett, A.G.; Ogden, R.C. & Nathanail, J.F., 2015.** *The LQM/CIEH S4ULs for Human Health Risk Assessment*. Nottingham: Land Quality Press

**USEPA, 2022.** *Regional Screening Levels (RSLs)*. [online] Available at: <epa.gov/risk/regional-screening-levels-rsls>.

**Oakshire Environmental** Available at: <oakshireenvironmental.co.uk>.



## Appendix - Site Maps & Plans

Description

Site location plan

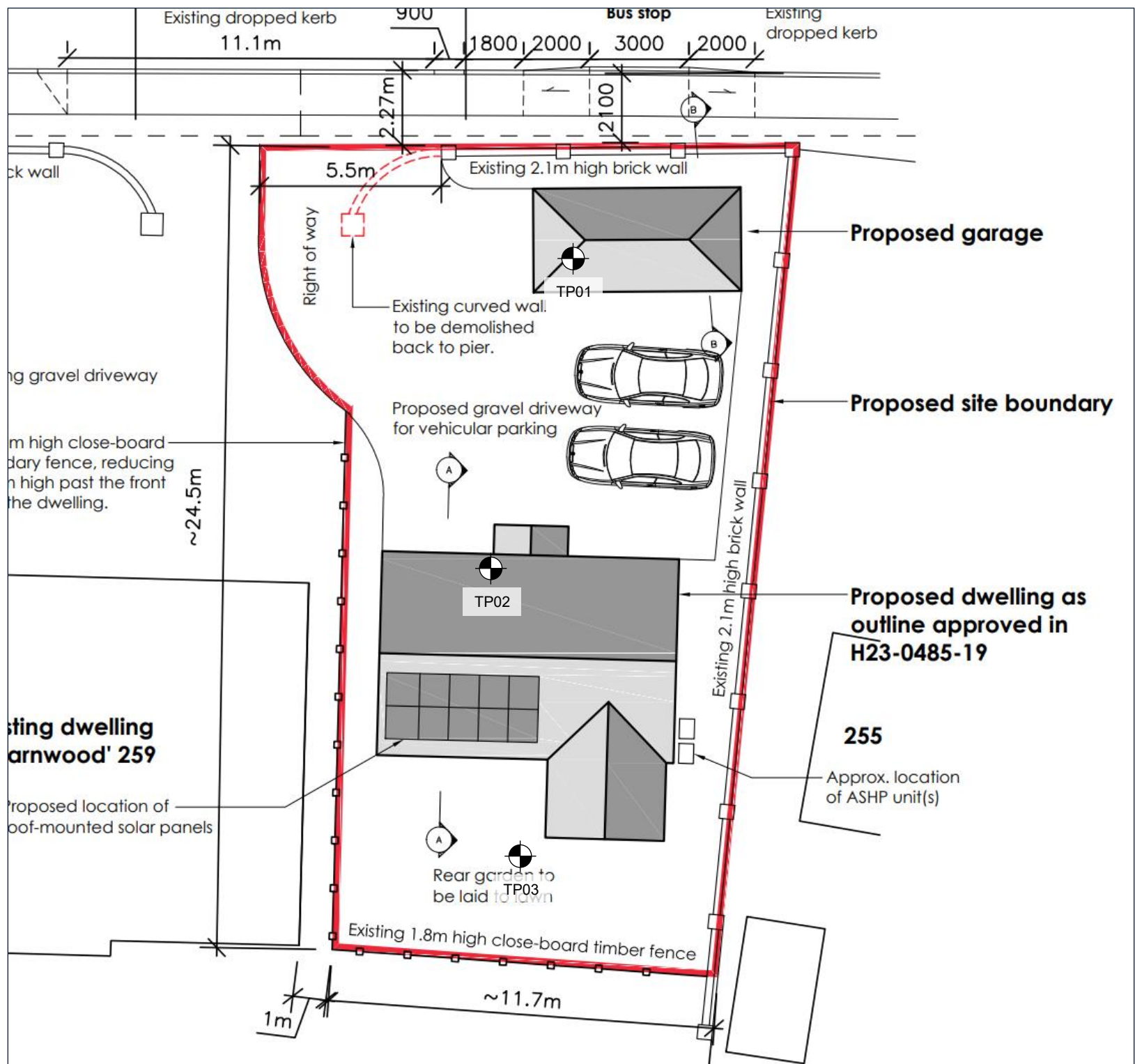
Sources

Contains OS data © Crown copyright and database rights

Key

Site boundary

▲ North



## Appendix - Site Maps & Plans

Description

Proposed site plan showing trial pit locations

Sources

GAS Architecture

Key

|                                                                                                                                                                                        |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <div style="width: 20px; height: 10px; background-color: red; border: 1px solid black;"></div>                                                                                         | Site boundary      |
| <div style="width: 20px; height: 20px; background: radial-gradient(circle, black 1px, transparent 1px); background-size: 4px 4px; border: 1px solid black; border-radius: 50%;"></div> | Trial pit location |
| <div style="width: 0; height: 0; border-left: 5px solid transparent; border-right: 5px solid transparent; border-bottom: 8px solid black;"></div>                                      | North              |



**Appendix - Site Photos**

Description

Sources

Oakshire Environmental



Appendix - Site Photos

Description

Sources

Oakshire Environmental



# Appendix - Site Photos

Description

Sources

Oakshire Environmental



Appendix - Site Photos

Description

Sources

Oakshire Environmental



**Appendix - Site Photos**

Description

Sources

Oakshire Environmental



## Appendix - Site Photos

Description

Sources

Oakshire Environmental

| Site                      | Land adjacent to Charnwood, 259 High Road, Whaplode, Spalding, PE12 6TG | Reference                                                                                            | TP01          | Appendix - Ground Conditions |        |  |
|---------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|------------------------------|--------|--|
| Samples                   |                                                                         | Description of Strata                                                                                | Thickness (m) | Depth (m)                    | Symbol |  |
| Depth (m)                 | ID                                                                      |                                                                                                      |               |                              |        |  |
| 0.30                      | S01                                                                     | Grass overlying dark brown sandy CLAY with roots                                                     | 0.60          | 0.60                         |        |  |
|                           |                                                                         |                                                                                                      |               |                              |        |  |
| 1.00                      | S02                                                                     | Black brown sandy CLAY with black smears, mixed with light brown SAND and occasional brick fragments | 0.60          | 1.20                         |        |  |
|                           |                                                                         |                                                                                                      |               |                              |        |  |
|                           |                                                                         | Light brown silty CLAY with black smears and occasional brick fragments                              | 0.30          | 1.50                         |        |  |
| Remarks and comments      |                                                                         |                                                                                                      |               |                              |        |  |
| No groundwater identified |                                                                         |                                                                                                      |               |                              |        |  |

| Site                      | Land adjacent to Charnwood, 259 High Road, Whaplode, Spalding, PE12 6TG | Reference                                              | TP02 | Appendix - Ground Conditions |           |        |
|---------------------------|-------------------------------------------------------------------------|--------------------------------------------------------|------|------------------------------|-----------|--------|
| Samples                   |                                                                         | Description of Strata                                  |      | Thickness (m)                | Depth (m) | Symbol |
| Depth (m)                 | ID                                                                      |                                                        |      |                              |           |        |
| 0.70                      | S03                                                                     | Grass overlying dark brown sandy CLAY with roots       |      | 0.60                         | 0.60      |        |
|                           |                                                                         | Black brown silty CLAY with gravel and brick fragments |      | 0.10                         | 0.70      |        |
| Remarks and comments      |                                                                         |                                                        |      |                              |           |        |
| No groundwater identified |                                                                         |                                                        |      |                              |           |        |

| Site                      | Land adjacent to Charnwood, 259 High Road, Whaplode, Spalding, PE12 6TG | Reference                                                               | TP03 | Appendix - Ground Conditions |           |        |
|---------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|------|------------------------------|-----------|--------|
| Samples                   |                                                                         | Description of Strata                                                   |      | Thickness (m)                | Depth (m) | Symbol |
| Depth (m)                 | ID                                                                      |                                                                         |      |                              |           |        |
| 0.30                      | S04                                                                     | Grass overlying dark brown silty CLAY with black smears and roots       |      | 0.50                         | 0.50      |        |
|                           |                                                                         |                                                                         |      |                              |           |        |
| 1.00                      | S05                                                                     | Black brown silty CLAY with black smears and occasional brick fragments |      | 0.10                         | 0.60      |        |
|                           |                                                                         | Light brown SAND                                                        |      | 0.30                         | 0.90      |        |
|                           |                                                                         |                                                                         |      |                              |           |        |
|                           |                                                                         | Black silty CLAY with occasional brick fragments                        |      | 0.50                         | 1.40      |        |
| Remarks and comments      |                                                                         |                                                                         |      |                              |           |        |
| No groundwater identified |                                                                         |                                                                         |      |                              |           |        |



## ANALYTICAL TEST REPORT

**Contract no:** 119196

**Contract name:** La Rose Homes

**Client reference:** -

**Clients name:** Oakshire Environmental

**Clients address:** 6 Vine Close  
Bottesford  
Nottingham  
NG13 0FW

**Samples received:** 16 February 2023

**Analysis started:** 16 February 2023

**Analysis completed:** 24 February 2023

**Report issued:** 24 February 2023

**Key**

|     |                                               |
|-----|-----------------------------------------------|
| U   | UKAS accredited test                          |
| M   | MCERTS & UKAS accredited test                 |
| \$  | Test carried out by an approved subcontractor |
| I/S | Insufficient sample to carry out test         |
| N/S | Sample not suitable for testing               |
| NAD | No Asbestos Detected                          |

**Approved by:**

Abbie Neasham-Bourn  
Senior Reporting Administrator

# Chemtech Environmental Limited

## SAMPLE INFORMATION

### MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

| Lab ref  | Sample id | Depth (m) | Sample description             | Material removed | % Removed | % Moisture |
|----------|-----------|-----------|--------------------------------|------------------|-----------|------------|
| 119196-1 | S01       | -         | Sandy Clay with Roots          | -                | -         | 17.6       |
| 119196-2 | S02       | -         | Sandy Clay with Roots          | -                | -         | 20.0       |
| 119196-3 | S03       | -         | Loamy Clay with Gravel & Roots | -                | -         | 15.3       |
| 119196-4 | S04       | -         | Loamy Clay with Roots          | -                | -         | 17.3       |
| 119196-5 | S05       | -         | Loamy Clay                     | -                | -         | 19.3       |

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## SOILS

| Lab number<br>Sample id<br>Depth (m)<br>Date sampled |                    |             | 119196-1<br>S01<br>-<br>14/02/2023 | 119196-2<br>S02<br>-<br>14/02/2023 | 119196-3<br>S03<br>-<br>14/02/2023 | 119196-4<br>S04<br>-<br>14/02/2023 | 119196-5<br>S05<br>-<br>14/02/2023 |
|------------------------------------------------------|--------------------|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Test                                                 | Method             | Units       |                                    |                                    |                                    |                                    |                                    |
| Arsenic (total)                                      | CE127 <sup>M</sup> | mg/kg As    | 13                                 | 13                                 | 18                                 | 15                                 | 15                                 |
| Beryllium (total)                                    | CE127 <sup>U</sup> | mg/kg Be    | <1                                 | <1                                 | <1                                 | <1                                 | 1.0                                |
| Cadmium (total)                                      | CE127 <sup>M</sup> | mg/kg Cd    | 0.3                                | <0.2                               | 0.2                                | 0.2                                | 0.2                                |
| Chromium (total)                                     | CE127 <sup>M</sup> | mg/kg Cr    | 39                                 | 28                                 | 28                                 | 40                                 | 34                                 |
| Chromium (III)                                       | CE208              | mg/kg CrIII | 39                                 | 28                                 | 28                                 | 40                                 | 34                                 |
| Chromium (VI)                                        | CE146              | mg/kg CrVI  | <1                                 | <1                                 | <1                                 | <1                                 | <1                                 |
| Copper (total)                                       | CE127 <sup>M</sup> | mg/kg Cu    | 88                                 | 38                                 | 28                                 | 24                                 | 40                                 |
| Lead (total)                                         | CE127 <sup>M</sup> | mg/kg Pb    | 33                                 | 113                                | 108                                | 42                                 | 382                                |
| Mercury (total)                                      | CE127 <sup>M</sup> | mg/kg Hg    | <0.5                               | <0.5                               | <0.5                               | <0.5                               | 1.4                                |
| Nickel (total)                                       | CE127 <sup>M</sup> | mg/kg Ni    | 22                                 | 17                                 | 15                                 | 22                                 | 20                                 |
| Selenium (total)                                     | CE127 <sup>M</sup> | mg/kg Se    | 1.6                                | 1.1                                | 1.1                                | 1.3                                | 1.2                                |
| Vanadium (total)                                     | CE127 <sup>M</sup> | mg/kg V     | 35                                 | 32                                 | 32                                 | 44                                 | 37                                 |
| Zinc (total)                                         | CE127 <sup>M</sup> | mg/kg Zn    | 90                                 | 80                                 | 77                                 | 63                                 | 142                                |
| pH                                                   | CE004 <sup>M</sup> | units       | 8.6                                | 8.2                                | 8.5                                | 8.4                                | 7.8                                |
| Phenols (total)                                      | CE078              | mg/kg PhOH  | <0.5                               | <0.5                               | <0.5                               | <0.5                               | <0.5                               |
| Total Organic Carbon (TOC)                           | CE197              | % w/w C     | 2.1                                | 2.8                                | 2.4                                | 1.7                                | 2.5                                |
| <b>PAH</b>                                           |                    |             |                                    |                                    |                                    |                                    |                                    |
| Naphthalene                                          | CE087 <sup>M</sup> | mg/kg       | 0.02                               | 0.06                               | 0.09                               | <0.02                              | 0.19                               |
| Acenaphthylene                                       | CE087 <sup>M</sup> | mg/kg       | <0.02                              | 0.03                               | 0.06                               | <0.02                              | 0.12                               |
| Acenaphthene                                         | CE087 <sup>M</sup> | mg/kg       | <0.02                              | <0.02                              | <0.02                              | <0.02                              | 0.03                               |
| Fluorene                                             | CE087 <sup>U</sup> | mg/kg       | <0.02                              | <0.02                              | <0.02                              | <0.02                              | 0.08                               |
| Phenanthrene                                         | CE087 <sup>M</sup> | mg/kg       | 0.11                               | 0.24                               | 0.31                               | 0.05                               | 1.37                               |
| Anthracene                                           | CE087 <sup>U</sup> | mg/kg       | <0.02                              | 0.04                               | 0.11                               | <0.02                              | 0.12                               |
| Fluoranthene                                         | CE087 <sup>M</sup> | mg/kg       | 0.27                               | 0.51                               | 1.03                               | 0.11                               | 1.95                               |
| Pyrene                                               | CE087 <sup>M</sup> | mg/kg       | 0.23                               | 0.46                               | 0.95                               | 0.10                               | 1.57                               |
| Benzo(a)anthracene                                   | CE087 <sup>U</sup> | mg/kg       | 0.16                               | 0.30                               | 0.59                               | 0.09                               | 0.72                               |
| Chrysene                                             | CE087 <sup>M</sup> | mg/kg       | 0.17                               | 0.33                               | 0.64                               | 0.08                               | 0.99                               |
| Benzo(b)fluoranthene                                 | CE087 <sup>M</sup> | mg/kg       | 0.18                               | 0.38                               | 0.78                               | 0.13                               | 1.10                               |
| Benzo(k)fluoranthene                                 | CE087 <sup>M</sup> | mg/kg       | 0.07                               | 0.15                               | 0.29                               | 0.04                               | 0.41                               |
| Benzo(a)pyrene                                       | CE087 <sup>U</sup> | mg/kg       | 0.16                               | 0.35                               | 0.69                               | 0.11                               | 0.95                               |
| Indeno(123cd)pyrene                                  | CE087 <sup>M</sup> | mg/kg       | 0.10                               | 0.23                               | 0.49                               | 0.08                               | 0.69                               |
| Dibenz(ah)anthracene                                 | CE087 <sup>M</sup> | mg/kg       | <0.02                              | 0.04                               | 0.08                               | <0.02                              | 0.13                               |
| Benzo(ghi)perylene                                   | CE087 <sup>M</sup> | mg/kg       | 0.09                               | 0.23                               | 0.44                               | 0.07                               | 0.64                               |
| PAH (total of USEPA 16)                              | CE087              | mg/kg       | 1.57                               | 3.35                               | 6.57                               | 0.86                               | 11.1                               |
| <b>BTEX &amp; TPH</b>                                |                    |             |                                    |                                    |                                    |                                    |                                    |
| Benzene                                              | CE192 <sup>U</sup> | mg/kg       | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Toluene                                              | CE192 <sup>U</sup> | mg/kg       | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Ethylbenzene                                         | CE192 <sup>U</sup> | mg/kg       | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| m & p-Xylene                                         | CE192 <sup>U</sup> | mg/kg       | <0.02                              | <0.02                              | <0.02                              | <0.02                              | <0.02                              |
| o-Xylene                                             | CE192 <sup>U</sup> | mg/kg       | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| VPH Aromatic (>EC5-EC7)                              | CE067              | mg/kg       | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |

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| Lab number<br>Sample id<br>Depth (m)<br>Date sampled |        |       | 119196-1<br>S01<br>-<br>14/02/2023 | 119196-2<br>S02<br>-<br>14/02/2023 | 119196-3<br>S03<br>-<br>14/02/2023 | 119196-4<br>S04<br>-<br>14/02/2023 | 119196-5<br>S05<br>-<br>14/02/2023 |
|------------------------------------------------------|--------|-------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Test                                                 | Method | Units |                                    |                                    |                                    |                                    |                                    |
| VPH Aromatic (>EC7-EC8)                              | CE067  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| VPH Aromatic (>EC8-EC10)                             | CE067  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| EPH Aromatic (>EC10-EC12)                            | CE250  | mg/kg | <10                                | <10                                | <10                                | <10                                | <10                                |
| EPH Aromatic (>EC12-EC16)                            | CE250  | mg/kg | <10                                | <10                                | <10                                | <10                                | <10                                |
| EPH Aromatic (>EC16-EC21)                            | CE250  | mg/kg | <1                                 | <1                                 | <1                                 | <1                                 | <1                                 |
| EPH Aromatic (>EC21-EC35)                            | CE250  | mg/kg | <1                                 | <1                                 | <1                                 | <1                                 | <1                                 |
| EPH Aromatic (>EC35-EC44)                            | CE250  | mg/kg | <1                                 | <1                                 | <1                                 | <1                                 | <1                                 |
| VPH Aliphatic (>C5-C6)                               | CE067  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| VPH Aliphatic (>C6-C8)                               | CE067  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| VPH Aliphatic (>C8-C10)                              | CE067  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| EPH Aliphatic (>C10-C12)                             | CE250  | mg/kg | <6                                 | <6                                 | <6                                 | <6                                 | <6                                 |
| EPH Aliphatic (>C12-C16)                             | CE250  | mg/kg | <6                                 | <6                                 | <6                                 | <6                                 | <6                                 |
| EPH Aliphatic (>C16-C35)                             | CE250  | mg/kg | <15                                | <15                                | <15                                | <15                                | <15                                |
| EPH Aliphatic (>C35-C44)                             | CE250  | mg/kg | <10                                | <10                                | <10                                | <10                                | <10                                |
| <b>Volatiles</b>                                     |        |       |                                    |                                    |                                    |                                    |                                    |
| Dichlorodifluoromethane                              | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Chloromethane                                        | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Vinyl chloride                                       | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Bromomethane                                         | CE174  | mg/kg | <0.03                              | <0.03                              | <0.03                              | <0.03                              | <0.03                              |
| Chloroethane                                         | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Trichlorofluoromethane                               | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,1-Dichloroethene                                   | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Trans-1,2-Dichloroethene                             | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,1-Dichloroethane                                   | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 2,2-Dichloropropane                                  | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Cis-1,2-Dichloroethene                               | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Bromochloromethane                                   | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Chloroform                                           | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,1,1-Trichloroethane                                | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Carbon tetrachloride                                 | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,1-Dichloro-1-propene                               | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2-Dichloroethane                                   | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Trichloroethene                                      | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2-Dichloropropane                                  | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Dibromomethane                                       | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Bromodichloromethane                                 | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| cis-1,3-Dichloro-1-propene                           | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| trans-1,3-Dichloro-1-propene                         | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,1,2-Trichloroethane                                | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Tetrachloroethene                                    | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,3-Dichloropropane                                  | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |

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| Lab number<br>Sample id<br>Depth (m)<br>Date sampled |        |       | 119196-1<br>S01<br>-<br>14/02/2023 | 119196-2<br>S02<br>-<br>14/02/2023 | 119196-3<br>S03<br>-<br>14/02/2023 | 119196-4<br>S04<br>-<br>14/02/2023 | 119196-5<br>S05<br>-<br>14/02/2023 |
|------------------------------------------------------|--------|-------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Test                                                 | Method | Units |                                    |                                    |                                    |                                    |                                    |
| Dibromochloromethane                                 | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2-Dibromoethane                                    | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Chlorobenzene                                        | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,1,1,2-Tetrachloroethane                            | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Styrene                                              | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Tribromomethane                                      | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Isopropylbenzene                                     | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Bromobenzene                                         | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,1,2,2-Tetrachloroethane                            | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2,3-Trichloropropane                               | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Propylbenzene                                        | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 2-Chlorotoluene                                      | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 4-Chlorotoluene                                      | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,3,5-Trimethylbenzene                               | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| tert-Butylbenzene                                    | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2,4-Trimethylbenzene                               | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| sec-Butylbenzene                                     | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,3-Dichlorobenzene                                  | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 4-Isopropyltoluene                                   | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,4-Dichlorobenzene                                  | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2-Dichlorobenzene                                  | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Butylbenzene                                         | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2-Dibromo-3-chloropropane                          | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2,4-Trichlorobenzene                               | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Hexachloro-1,3-butadiene                             | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| 1,2,3-Trichlorobenzene                               | CE174  | mg/kg | <0.01                              | <0.01                              | <0.01                              | <0.01                              | <0.01                              |
| Semi-volatiles                                       |        |       |                                    |                                    |                                    |                                    |                                    |
| N-Nitrosodimethylamine                               | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Phenol                                               | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Bis(2-chloroethyl)ether                              | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2-Chlorophenol                                       | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 1,3-Dichlorobenzene                                  | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 1,4-Dichlorobenzene                                  | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2-Methylphenol                                       | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 1,2-Dichlorobenzene                                  | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Bis(2-chloroisopropyl)ether                          | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 3&4-Methylphenol                                     | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| N-Nitrosodi-n-propylamine                            | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Hexachloroethane                                     | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Nitrobenzene                                         | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Isophorone                                           | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |

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| Lab number<br>Sample id<br>Depth (m)<br>Date sampled |        |       | 119196-1<br>S01<br>-<br>14/02/2023 | 119196-2<br>S02<br>-<br>14/02/2023 | 119196-3<br>S03<br>-<br>14/02/2023 | 119196-4<br>S04<br>-<br>14/02/2023 | 119196-5<br>S05<br>-<br>14/02/2023 |
|------------------------------------------------------|--------|-------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Test                                                 | Method | Units |                                    |                                    |                                    |                                    |                                    |
| 2,4-Dimethylphenol                                   | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2-Nitrophenol                                        | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Bis(2-chloroethoxy)methane                           | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2,4-Dichlorophenol                                   | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 1,2,4-Trichlorobenzene                               | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 4-Chloroaniline                                      | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Hexachlorobutadiene                                  | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 4-Chloro-3-methylphenol                              | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2-Methylnaphthalene                                  | CE189  | mg/kg | <0.1                               | <0.1                               | 0.3                                | 0.2                                | <0.1                               |
| 1-Methylnaphthalene                                  | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Hexachlorocyclopentadiene                            | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2,4,6-Trichlorophenol                                | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2,4,5-Trichlorophenol                                | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2-Chloronaphthalene                                  | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2-Nitroaniline                                       | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Dimethyl phthalate                                   | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2,6-Dinitrotoluene                                   | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 3-Nitroaniline                                       | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2,4-Dinitrophenol                                    | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 4-Nitrophenol                                        | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2,4-Dinitrotoluene                                   | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Dibenzofuran                                         | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Diethyl phthalate                                    | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 4-Chlorophenylphenyl ether                           | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 4-Nitroaniline                                       | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 2-Methyl-4,6-dinitrophenol                           | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Azobenzene                                           | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| 4-Bromophenylphenyl ether                            | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Hexachlorobenzene                                    | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Pentachlorophenol                                    | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Carbazole                                            | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Di-n-butyl phthalate                                 | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Butylbenzyl phthalate                                | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Bis(2-ethylhexyl)phthalate                           | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| Di-n-octyl phthalate                                 | CE189  | mg/kg | <0.1                               | <0.1                               | <0.1                               | <0.1                               | <0.1                               |
| SVOC Tentatively Identified Compounds                | CE189  | -     | None Identified                    | None Identified                    | None Identified                    | None Identified                    | None Identified                    |
| Subcontracted analysis                               |        |       |                                    |                                    |                                    |                                    |                                    |
| Asbestos (qualitative)                               | \$     | -     | NAD                                | -                                  | -                                  | NAD                                | -                                  |

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## METHOD DETAILS

| METHOD | SOILS                      | METHOD SUMMARY                          | SAMPLE      | STATUS | LOD  | UNITS       |
|--------|----------------------------|-----------------------------------------|-------------|--------|------|-------------|
| CE127  | Arsenic (total)            | Aqua regia digest, ICP-MS               | Dry         | M      | 1    | mg/kg As    |
| CE127  | Beryllium (total)          | Aqua regia digest, ICP-MS               | Dry         | U      | 1    | mg/kg Be    |
| CE127  | Cadmium (total)            | Aqua regia digest, ICP-MS               | Dry         | M      | 0.2  | mg/kg Cd    |
| CE127  | Chromium (total)           | Aqua regia digest, ICP-MS               | Dry         | M      | 1    | mg/kg Cr    |
| CE208  | Chromium (III)             | Calculation: Cr (total) - Cr (VI)       | Dry         |        | 1    | mg/kg CrIII |
| CE146  | Chromium (VI)              | Acid extraction, Colorimetry            | Dry         |        | 1    | mg/kg CrVI  |
| CE127  | Copper (total)             | Aqua regia digest, ICP-MS               | Dry         | M      | 1    | mg/kg Cu    |
| CE127  | Lead (total)               | Aqua regia digest, ICP-MS               | Dry         | M      | 1    | mg/kg Pb    |
| CE127  | Mercury (total)            | Aqua regia digest, ICP-MS               | Dry         | M      | 0.5  | mg/kg Hg    |
| CE127  | Nickel (total)             | Aqua regia digest, ICP-MS               | Dry         | M      | 1    | mg/kg Ni    |
| CE127  | Selenium (total)           | Aqua regia digest, ICP-MS               | Dry         | M      | 0.3  | mg/kg Se    |
| CE127  | Vanadium (total)           | Aqua regia digest, ICP-MS               | Dry         | M      | 1    | mg/kg V     |
| CE127  | Zinc (total)               | Aqua regia digest, ICP-MS               | Dry         | M      | 5    | mg/kg Zn    |
| CE004  | pH                         | Based on BS 1377, pH Meter              | As received | M      | -    | units       |
| CE078  | Phenols (total)            | Extraction, Continuous Flow Colorimetry | As received |        | 0.5  | mg/kg PhOH  |
| CE197  | Total Organic Carbon (TOC) | Carbon Analyser                         | Dry         |        | 0.1  | % w/w C     |
| CE087  | Naphthalene                | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Acenaphthylene             | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Acenaphthene               | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Fluorene                   | Solvent extraction, GC-MS               | As received | U      | 0.02 | mg/kg       |
| CE087  | Phenanthrene               | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Anthracene                 | Solvent extraction, GC-MS               | As received | U      | 0.02 | mg/kg       |
| CE087  | Fluoranthene               | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Pyrene                     | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Benzo(a)anthracene         | Solvent extraction, GC-MS               | As received | U      | 0.02 | mg/kg       |
| CE087  | Chrysene                   | Solvent extraction, GC-MS               | As received | M      | 0.03 | mg/kg       |
| CE087  | Benzo(b)fluoranthene       | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Benzo(k)fluoranthene       | Solvent extraction, GC-MS               | As received | M      | 0.03 | mg/kg       |
| CE087  | Benzo(a)pyrene             | Solvent extraction, GC-MS               | As received | U      | 0.02 | mg/kg       |
| CE087  | Indeno(123cd)pyrene        | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Dibenz(ah)anthracene       | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | Benzo(ghi)perylene         | Solvent extraction, GC-MS               | As received | M      | 0.02 | mg/kg       |
| CE087  | PAH (total of USEPA 16)    | Solvent extraction, GC-MS               | As received |        | 0.34 | mg/kg       |
| CE192  | Benzene                    | Headspace GC-FID                        | As received | U      | 0.01 | mg/kg       |
| CE192  | Toluene                    | Headspace GC-FID                        | As received | U      | 0.01 | mg/kg       |
| CE192  | Ethylbenzene               | Headspace GC-FID                        | As received | U      | 0.01 | mg/kg       |
| CE192  | m & p-Xylene               | Headspace GC-FID                        | As received | U      | 0.02 | mg/kg       |
| CE192  | o-Xylene                   | Headspace GC-FID                        | As received | U      | 0.01 | mg/kg       |
| CE067  | VPH Aromatic (>EC5-EC7)    | Headspace GC-FID                        | As received |        | 0.01 | mg/kg       |
| CE067  | VPH Aromatic (>EC7-EC8)    | Headspace GC-FID                        | As received |        | 0.01 | mg/kg       |
| CE067  | VPH Aromatic (>EC8-EC10)   | Headspace GC-FID                        | As received |        | 0.01 | mg/kg       |
| CE250  | EPH Aromatic (>EC10-EC12)  | Solvent extraction, GCxGC-FID           | As received |        | 1    | mg/kg       |
| CE250  | EPH Aromatic (>EC12-EC16)  | Solvent extraction, GCxGC-FID           | As received |        | 1    | mg/kg       |
| CE250  | EPH Aromatic (>EC16-EC21)  | Solvent extraction, GCxGC-FID           | As received |        | 1    | mg/kg       |

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## METHOD DETAILS

| METHOD | SOILS                        | METHOD SUMMARY                | SAMPLE      | STATUS | LOD  | UNITS |
|--------|------------------------------|-------------------------------|-------------|--------|------|-------|
| CE250  | EPH Aromatic (>EC21-EC35)    | Solvent extraction, GCxGC-FID | As received |        | 1    | mg/kg |
| CE250  | EPH Aromatic (>EC35-EC44)    | Solvent extraction, GCxGC-FID | As received |        | 1    | mg/kg |
| CE067  | VPH Aliphatic (>C5-C6)       | Headspace GC-FID              | As received |        | 0.1  | mg/kg |
| CE067  | VPH Aliphatic (>C6-C8)       | Headspace GC-FID              | As received |        | 0.1  | mg/kg |
| CE067  | VPH Aliphatic (>C8-C10)      | Headspace GC-FID              | As received |        | 0.1  | mg/kg |
| CE250  | EPH Aliphatic (>C10-C12)     | Solvent extraction, GCxGC-FID | As received |        | 6    | mg/kg |
| CE250  | EPH Aliphatic (>C12-C16)     | Solvent extraction, GCxGC-FID | As received |        | 6    | mg/kg |
| CE250  | EPH Aliphatic (>C16-C35)     | Solvent extraction, GCxGC-FID | As received |        | 15   | mg/kg |
| CE250  | EPH Aliphatic (>C35-C44)     | Solvent extraction, GCxGC-FID | As received |        | 10   | mg/kg |
| CE174  | Dichlorodifluoromethane      | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Chloromethane                | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Vinyl chloride               | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Bromomethane                 | Headspace GC-MS               | As received |        | 0.03 | mg/kg |
| CE174  | Chloroethane                 | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Trichlorofluoromethane       | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,1-Dichloroethene           | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Trans-1,2-Dichloroethene     | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,1-Dichloroethane           | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 2,2-Dichloropropane          | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Cis-1,2-Dichloroethene       | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Bromochloromethane           | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Chloroform                   | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,1,1-Trichloroethane        | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Carbon tetrachloride         | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,1-Dichloro-1-propene       | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,2-Dichloroethane           | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Trichloroethene              | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,2-Dichloropropane          | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Dibromomethane               | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Bromodichloromethane         | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | cis-1,3-Dichloro-1-propene   | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | trans-1,3-Dichloro-1-propene | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,1,2-Trichloroethane        | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Tetrachloroethene            | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,3-Dichloropropane          | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Dibromochloromethane         | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,2-Dibromoethane            | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Chlorobenzene                | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,1,1,2-Tetrachloroethane    | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Styrene                      | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Tribromomethane              | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Isopropylbenzene             | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | Bromobenzene                 | Headspace GC-MS               | As received |        | 0.01 | mg/kg |
| CE174  | 1,1,2,2-Tetrachloroethane    | Headspace GC-MS               | As received |        | 0.01 | mg/kg |

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## METHOD DETAILS

| METHOD | SOILS                       | METHOD SUMMARY            | SAMPLE      | STATUS | LOD  | UNITS |
|--------|-----------------------------|---------------------------|-------------|--------|------|-------|
| CE174  | 1,2,3-Trichloropropane      | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | Propylbenzene               | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 2-Chlorotoluene             | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 4-Chlorotoluene             | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 1,3,5-Trimethylbenzene      | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | tert-Butylbenzene           | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 1,2,4-Trimethylbenzene      | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | sec-Butylbenzene            | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 1,3-Dichlorobenzene         | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 4-Isopropyltoluene          | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 1,4-Dichlorobenzene         | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 1,2-Dichlorobenzene         | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | Butylbenzene                | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 1,2-Dibromo-3-chloropropane | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 1,2,4-Trichlorobenzene      | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | Hexachloro-1,3-butadiene    | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE174  | 1,2,3-Trichlorobenzene      | Headspace GC-MS           | As received |        | 0.01 | mg/kg |
| CE189  | N-Nitrosodimethylamine      | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Phenol                      | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Bis(2-chloroethyl)ether     | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 2-Chlorophenol              | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 1,3-Dichlorobenzene         | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 1,4-Dichlorobenzene         | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 2-Methylphenol              | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 1,2-Dichlorobenzene         | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Bis(2-chloroisopropyl)ether | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 3&4-Methylphenol            | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | N-Nitrosodi-n-propylamine   | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Hexachloroethane            | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Nitrobenzene                | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Isophorone                  | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 2,4-Dimethylphenol          | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 2-Nitrophenol               | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Bis(2-chloroethoxy)methane  | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 2,4-Dichlorophenol          | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 1,2,4-Trichlorobenzene      | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 4-Chloroaniline             | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Hexachlorobutadiene         | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 4-Chloro-3-methylphenol     | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 2-Methylnaphthalene         | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 1-Methylnaphthalene         | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | Hexachlorocyclopentadiene   | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 2,4,6-Trichlorophenol       | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |
| CE189  | 2,4,5-Trichlorophenol       | Solvent extraction, GC-MS | As received |        | 0.1  | mg/kg |

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## METHOD DETAILS

| METHOD | SOILS                                 | METHOD SUMMARY            | SAMPLE      | STATUS | LOD | UNITS |
|--------|---------------------------------------|---------------------------|-------------|--------|-----|-------|
| CE189  | 2-Chloronaphthalene                   | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 2-Nitroaniline                        | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Dimethyl phthalate                    | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 2,6-Dinitrotoluene                    | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 3-Nitroaniline                        | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 2,4-Dinitrophenol                     | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 4-Nitrophenol                         | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 2,4-Dinitrotoluene                    | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Dibenzofuran                          | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Diethyl phthalate                     | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 4-Chlorophenylphenyl ether            | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 4-Nitroaniline                        | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 2-Methyl-4,6-dinitrophenol            | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Azobenzene                            | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | 4-Bromophenylphenyl ether             | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Hexachlorobenzene                     | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Pentachlorophenol                     | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Carbazole                             | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Di-n-butyl phthalate                  | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Butylbenzyl phthalate                 | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Bis(2-ethylhexyl)phthalate            | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | Di-n-octyl phthalate                  | Solvent extraction, GC-MS | As received |        | 0.1 | mg/kg |
| CE189  | SVOC Tentatively Identified Compounds | Solvent extraction, GC-MS | As received |        | -   | -     |
| \$     | Asbestos (qualitative)                | HSG 248, Microscopy       | Dry         | U      | -   | -     |

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## DEVIATING SAMPLE INFORMATION

### Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

### Key

|     |                                                 |
|-----|-------------------------------------------------|
| N   | No (not deviating sample)                       |
| Y   | Yes (deviating sample)                          |
| NSD | Sampling date not provided                      |
| NST | Sampling time not provided (waters only)        |
| EHT | Sample exceeded holding time(s)                 |
| IC  | Sample not received in appropriate containers   |
| HP  | Headspace present in sample container           |
| NCF | Sample not chemically fixed (where appropriate) |
| OR  | Other (specify)                                 |

| Lab ref  | Sample id | Depth (m) | Deviating | Tests (Reason for deviation) |
|----------|-----------|-----------|-----------|------------------------------|
| 119196-1 | S01       | -         | N         |                              |
| 119196-2 | S02       | -         | N         |                              |
| 119196-3 | S03       | -         | N         |                              |
| 119196-4 | S04       | -         | N         |                              |
| 119196-5 | S05       | -         | N         |                              |

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## ADDITIONAL INFORMATION

### Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

BTEX compounds are identified by retention time only and may include interference from co-eluting compounds.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.