

# NOMA MARKETING SUITE, MANCHESTER

## SITE COMPLETION REPORT

**Job Number:** LKC 22 1476  
**Date:** September 2022  
**Client:** MEPC Ltd



INCREASING LAND VALUE

LK  
GROUP

| <b>LK Consult</b>            |                                  |                       |                       |
|------------------------------|----------------------------------|-----------------------|-----------------------|
| <b>Document Verification</b> |                                  |                       |                       |
| <b>Site Address</b>          | Noma Marketing Suite, Manchester |                       |                       |
| <b>Report Title</b>          | Site Completion Report           |                       |                       |
| <b>Job Number</b>            | LKC 22 1476                      | <b>Document Ref.</b>  | CL-602-LKC 22 1476-01 |
| <b>Date Issued</b>           | September 2022                   | <b>Report Version</b> | R0                    |
| <b>Prepared By</b>           | Joseph Walker                    | <b>Reviewed By</b>    | Paul Quimby           |

| <b>Revision Record</b> |             |                           |                    |
|------------------------|-------------|---------------------------|--------------------|
| <b>Revision No.</b>    | <b>Date</b> | <b>Nature of Revision</b> | <b>Approved By</b> |
|                        |             |                           |                    |

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Those using this information in subsequent assessments or evaluations do so at their own risk.

## CONTENTS

|          |                                           |          |
|----------|-------------------------------------------|----------|
| <b>1</b> | <b>Introduction .....</b>                 | <b>1</b> |
| 1.1      | Background .....                          | 1        |
| 1.2      | Summary of Required Validation Work ..... | 1        |
| <b>2</b> | <b>Environmental Capping Layer .....</b>  | <b>2</b> |
| 2.1      | Introduction .....                        | 2        |
| 2.2      | Validation of Imported Topsoil .....      | 2        |
| <b>3</b> | <b>Potable Water Supply.....</b>          | <b>3</b> |
| <b>4</b> | <b>Disposal Tickets .....</b>             | <b>4</b> |
| <b>5</b> | <b>Unexpected Contamination .....</b>     | <b>4</b> |
| <b>6</b> | <b>Conclusion.....</b>                    | <b>4</b> |

## FIGURES

Figure 1: Site Location Plan and Proposed Development Plan

Figure 2: Hand Dug Location Plan

## APPENDICES

Appendix A: Photographs

Appendix B: Certificate of Analysis - Topsoil

Appendix C: Generic Assessment Criteria Values – Soil

Appendix D: Disposal Tickets - Examples

## 1 Introduction

### 1.1 Background

LK Consult Ltd (LKC) has been commissioned by MEPC Ltd to provide a Site Completion Report for land off Angel Square, Manchester, relating to the Noma Marketing Suite (planning reference 129631/FO/2021).

The site is approximately 0.83ha and centred around NGR 384400N 399053E (Figure 1). The development comprised a single storey marketing suite (Sui Generis) with associated landscaping and parking (Figure 1).

The aim of the Site Completion Report will be to demonstrate to Local Authority that the site has been suitably remediated in line with any remedial requirements from previous (assumed Regulator agreed) reports. This should be in-line with the National Planning Policy Framework (NPPF)<sup>1</sup>, where the site is “suitable for use” for the proposed development.

The Site Completion Report should be sufficient to satisfy contaminated land condition 8b. Details are provided in the following Sections.

### 1.2 Summary of Required Validation Work

LKC understand the following reports have been submitted and have been used to assess what remediation is required:

- a) Factual Report on Ground Investigation at 2&3 Angel Square, Manchester by Structural Soils Ltd (dated July 2015, ref: 763315).
- b) 2&3 Angel Square & Marketing Suite: Ground Engineering Summary Report by Buro Happold (dated 16<sup>th</sup> December 2021, ref: 043434-BH-XX-XX-RP-GE-0001 R3).

It should be noted that the site investigation reports related to a much larger area.

The Buro Happold Report noted *‘based on the site-specific data from beneath the proposed footprint of NMS and in the immediate vicinity, it is not considered that any remediation strategy is required. The majority of the chemical test results do not record any elevated determinands or presence of ACM.’*

Measurable contamination in the smaller red edge boundary was noted from the 2015 site investigation around TP10A (chrysotile fibres / cement at 0.006%w/w) and lead at 4,300mg/kg around TP111. A low risk was identified at these locations as they are in the footprint of the new building and would be removed offsite during excavation and preparation of the building platform (by Chartrange), thus removing the source and pollutant linkage.

The report further stated the import / re-use of clean soil in landscaped areas would need to be tested to ensure suitability.

Based on the above LKC considers the following is required to satisfy Condition 8b:

1. Soil sampling of material brought onto landscaped areas (material has already been placed) to ensure it is chemically suitable for use and not a risk to human health.
2. Details on suitable installation of potable pipework.

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<sup>1</sup> DCL (2021). “National Planning Policy Framework.” Department of Communities and Local Government.

3. Provision of disposal tickets or evidence of appropriate disposal offsite for waste material / soils.
4. Details of any unexpected contamination.

Selected photographs of the completed site are presented in Appendix A.

## 2 Environmental Capping Layer

### 2.1 Introduction

Considering a low sensitive end use and limit access to any made ground in the managed landscaped areas LKC considered sampling of imported soil was of primary concern to ensure any soil exposure would be limited to 'clean' soil.

Topsoil had already been imported to site. Considering the large areas of soft landscaping and soil already imported to site LKC excavated 10no. shallow hand dug pits to take 10no. representative soil samples (ref: HD101-HD110) to represent soils that the receptor may come into contact with. Sample locations are presented in Figure 2.

Approximately 200m<sup>3</sup> of topsoil was imported from Tarmac Topscope, Congleton from topsoil stockpiled taken from Crown Farm Quarry, Northwich (CW8 2JL).

Approximately 120-450mm of topsoil was used in the landscaped areas. No obvious anthropogenic inclusions were noted in the soils excavated. Topsoil either was over compacted made ground, gravel layer or concrete. Selected photographs for each hand dug pit are presented in Appendix A.

### 2.2 Validation of Imported Topsoil

#### 2.2.1 Sampling Methodology

Soil samples of approximately 1kg were recovered in amber jars, amber vials for volatile analysis and plastic tubs. All the samples were labelled and stored in cool boxes prior to being collected by courier at the end of the day for delivery to the Chemtest laboratory in Newmarket. If collection was not possible the same day then samples were stored in the sample storage fridge at the LK Group offices below 4°C. Samples were tracked using appropriate Chain of Custody forms provided by Chemtest. All followed standard sampling protocol and preservation of samples was undertaken as described in the EA guidance on site investigation<sup>2</sup>.

Considering the condition of the soil in-situ (no obvious anthropogenic inclusions and no visual or olfactory evidence of contamination), the following were analysed:

- **10no. soil samples:** Arsenic, cadmium, chromium (total and hexavalent), copper, lead, mercury, nickel, selenium, vanadium, zinc, cyanide suite, phenols, water soluble sulphate, pH, USEPA PAH 16, TPH CWG, BTEX compounds, MTBE, organic matter and asbestos identification.

All soil laboratory certificates of analysis are presented in Appendix B.

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<sup>2</sup> EA (2000). "Technical Aspects Of Site Investigation. Volumes 1 & 2 Text Supplements Research and Development Technical Report." P5-065/Tr.

### 2.2.1 Soil Assessment Criteria

With regards to the soil risk assessment LKC will use the following hierarchy:

- Category 4 Screening Levels (C4SLs)<sup>3,4</sup>.
- LQM Suitable 4 Use Levels (S4ULs)<sup>5</sup>.

LKC consider the main risk drivers for PAHs are benzo(a)pyrene (B(a)P) and naphthalene. This is due to B(a)P possibly being a carcinogen and most toxic of the PAHs<sup>6,7</sup> and naphthalene the most volatile and soluble<sup>8</sup>. The new C4SLs indicate B(a)P as a surrogate marker for carcinogenic PAHs, since the risk from other non-carcinogenic PAHs are considered negligible<sup>9</sup>. Due to mainly LOD concentrations of PAHs a surrogate marker test was not considered necessary. Naphthalene will be treated separately using the LQM S4ULs.

All criteria have been generated using the CLEA V1.06/07 model based either on 1%, 2.5% and 6% Soil Organic matter (SOM). Results will be compared to the nearest appropriate SOM.

Results of the imported soil testing were screened against conservative assessment criteria for a 'residential without plant uptake' end use for volatile contaminants and 'Public Open Space-residential' (POSresi) end use for non-volatile contaminants (to allow for track back of soil). This is considered very conservative as these standard land uses relates to children.

A summary of the generic assessment criteria is provided in Appendix C.

### 2.2.2 Human Health Risk Assessment - Soil

When compared to the Generic Assessment Criteria (Appendix C) no soil results were exceeded.

LKC considers imported soil is deemed 'suitable for use' with regards to the risk to human health.

## 3 Potable Water Supply

LKC understand standard HDPE potable pipework has been connected through the site. LKC considers the potable pipework is suitable based on United Utilities (UU) undertaking the connection. UU would not connect if there were any concerns and is line with LKC recommendation in the site investigation report.

<sup>3</sup> Defra (2014). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Policy Companion Document."

<sup>4</sup> CL:AIRE (2013). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Final project Report."

<sup>5</sup> LQM (2014). "The LQM/CIEH S4ULs for Human Health Risk Assessment."

<sup>6</sup> EA (2002). "Contaminants in Soils: Collation of Toxicological Data and Intake Values for Humans. Benzo[a]pyrene." R&D Publication TOX2.

<sup>7</sup> USEPA (1984). "Health Effects Assessment of Polycyclic Aromatic Hydrocarbons (PAHs). EPA 540/1-86-013."

<sup>8</sup> EA (2003). "Review of the Fate and Transport of Selected Contaminants in the Soil Environment." Draft technical report P5-079/TR1.

<sup>9</sup> CL:AIRE (2013). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Final project Report."

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#### **4 Disposal Tickets**

Selected disposal tickets and an excel spreadsheet of loads removed have been provided to LKC. A total of c. 250m<sup>3</sup> of material was removed offsite to a licenced recycling facility by Chartrange. Selected disposal tickets have been provided as an example (Appendix D).

#### **5 Unexpected Contamination**

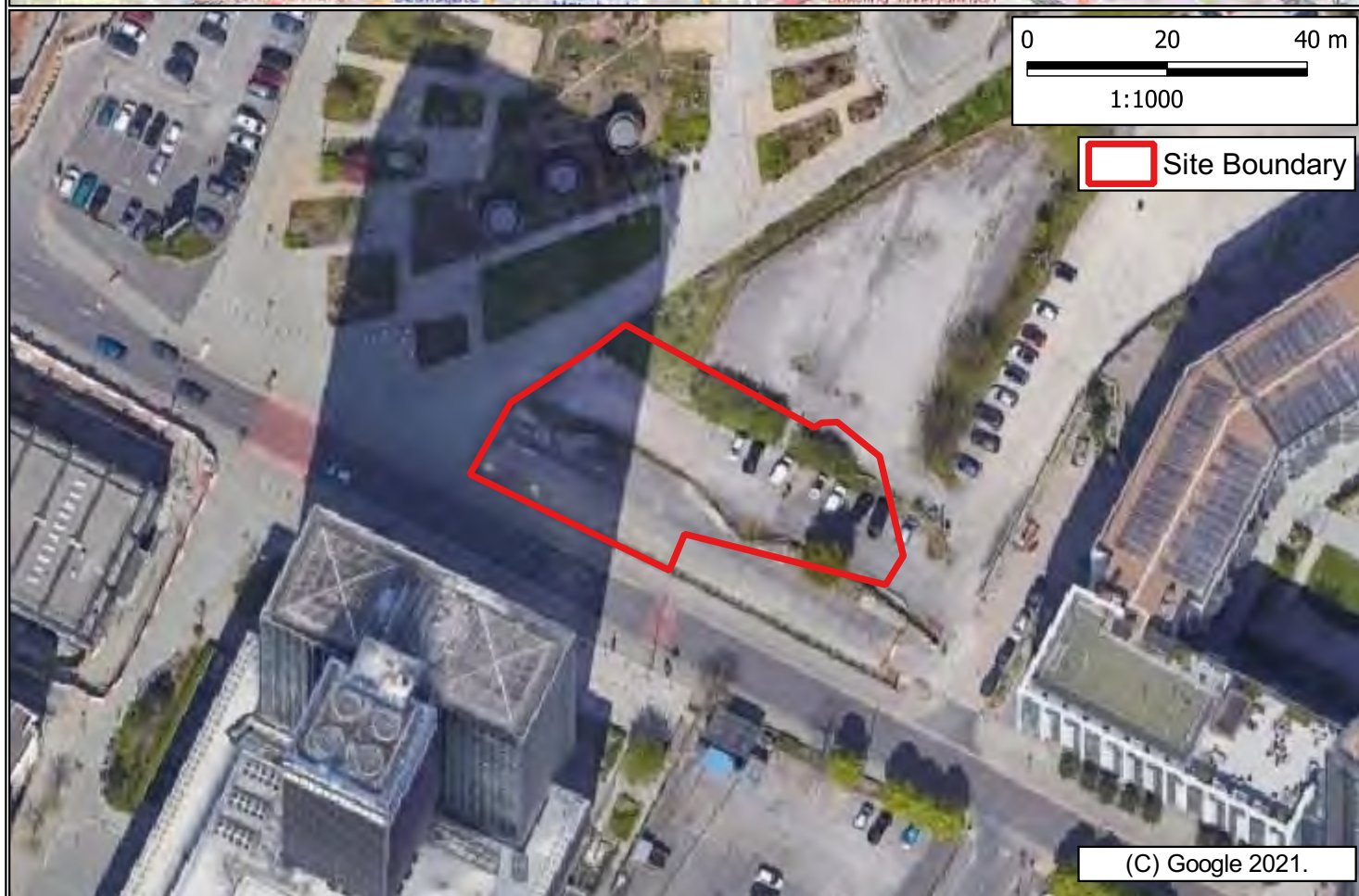
LKC understand from the contractors that no unexpected contamination was encountered during excavation and demolition.

#### **6 Conclusion**

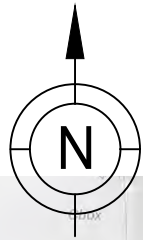
The work onsite has been validated. Based on the above information LKC considers the site is 'suitable for use' for a commercial end use.

LKC considers there is sufficient information to discharge the outstanding contaminated land planning condition 8b by Manchester City Council.

## FIGURES

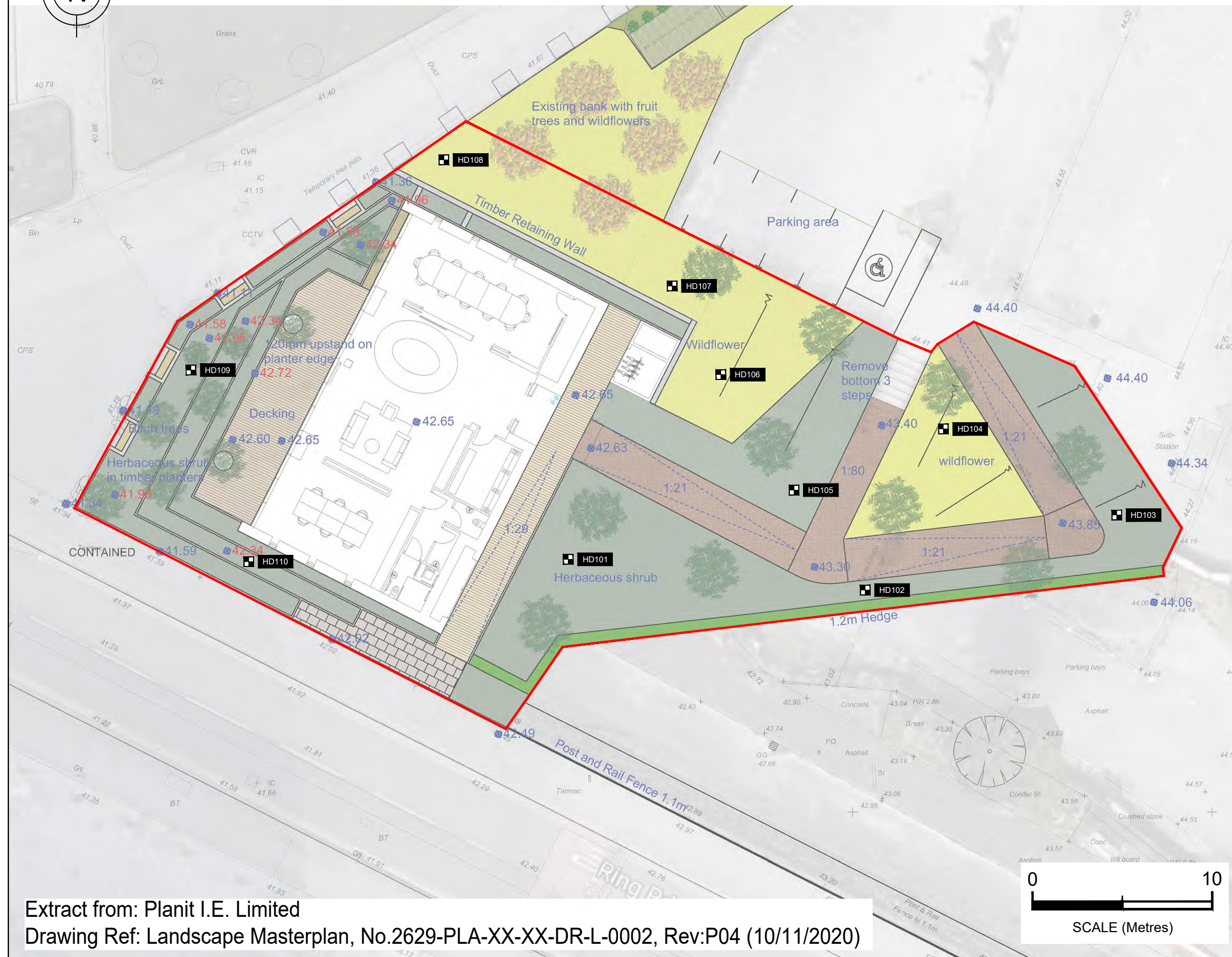


|                                   |                 |                   |                     |                                                      |           |                                                                                       |  |
|-----------------------------------|-----------------|-------------------|---------------------|------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|--|
| Client:<br><br>NOMA GP Ltd        |                 |                   |                     | Title:<br><br>Site Location &<br>Boundary Plan       |           |  |  |
| Site:<br><br>NOMA Marketing Suite |                 |                   |                     | Scale (see scale bar):<br>1:25,000 &<br>1:1,000 @ A4 |           |                                                                                       |  |
| Job No.:<br>LKC 22 1476           | Drawn By:<br>JW | Checked By:<br>PQ | Drawn:<br>Sept 2022 | Figure:<br>1                                         | Revision: |                                                                                       |  |



## KEY

-  Site Boundary
-  Hand Dug Trial Pit (HD)

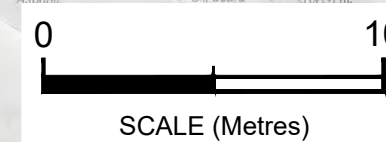


Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.



|                                  |                        |          |           |
|----------------------------------|------------------------|----------|-----------|
| Client:                          |                        |          |           |
| NOMA GP Ltd                      |                        |          |           |
| Site:                            |                        |          |           |
| NOMA Marketing Suite             |                        |          |           |
| Title:                           |                        |          |           |
| Site Investigation Location Plan |                        |          |           |
| Job No.:                         | Scale (See Scale Bar): | Figure:  | Revision: |
| LKC 22 1476                      | See Scale Bar          | 2        |           |
| Drawn By:                        | Checked By:            | Date:    |           |
| AC                               | JW                     | Aug 2022 |           |

Extract from: Planit I.E. Limited  
Drawing Ref: Landscape Masterplan, No.2629-PLA-XX-XX-DR-L-0002, Rev:P04 (10/11/2020)



# **APPENDIX A**

# **PHOTOGRAPHS**

## General Site Photographs



**Photograph 1-** View of southern side of building and HD110 from the south, looking northwest.



**Photograph 2-** View of area containing HD101-106 from the south, looking northeast.



**Photograph 3-** View of area containing HD101-106 from the east, looking west.



**Photograph 4-** View of area containing HD101, HD105 and HD106 from the north, looking southwest.



**Photograph 5-** View of area containing HD107-108 from the north, looking west.



**Photograph 6-** View of the northeast and northwest faces of the building, and of HD108-109.

## Hand Dug Pit Photographs

HD101



Photographs of HD101.

Soil was a brown gravelly very sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 300mm over a layer of made ground.

## Hand Dug Pit Photographs

### HD102



Photographs of HD102.

Soil was a brown gravelly very sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 290mm over a layer of made ground.

## Hand Dug Pit Photographs

### HD103



Photographs of HD103.

Soil was a brown gravelly very sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 300mm over a layer of made ground.

## Hand Dug Pit Photographs

### HD104



Photographs of HD104.

Soil was a brown slightly gravelly slightly sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 360mm over a layer of made ground.

## Hand Dug Pit Photographs

### HD105



Photographs of HD105.

Soil was a brown gravelly very sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 450mm over a layer of made ground.

## Hand Dug Pit Photographs

### HD106



Photographs of HD106.

Soil was a brown slightly gravelly slightly sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 300mm over a layer of made ground.

## Hand Dug Pit Photographs

### HD107



Photographs of HD107.

Soil was a brown slightly gravelly slightly sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 350mm over a layer of made ground.

## Hand Dug Pit Photographs

### HD108



Photographs of HD108.

Soil was a brown slightly gravelly slightly sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 120mm over a no dig gravel layer.

## Hand Dug Pit Photographs

### HD109



Photographs of HD109.

Soil was a brown gravelly very sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 400mm over a layer of gravels.

## Hand Dug Pit Photographs

### HD110



Photographs of HD110.

Soil was a brown slightly gravelly slightly sandy SILT with occasional rootlets.

Soil had no anthropogenic inclusions.

Depth of soil was c. 360mm over concrete base.

## **APPENDIX B**

### **CERTIFICATES OF ANALYSIS - TOPSOIL**



# Final Report

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**Report No.:** 22-32302-1  
**Initial Date of Issue:** 31-Aug-2022  
**Client** LK Consult  
**Client Address:** Unit 29 Eton Business Park  
Eton Hill Road  
Radcliffe  
Manchester  
Lancashire  
M26 2ZS  
**Contact(s):** Contaminated Land  
Paul Quimby  
**Project** LKC 22 1476 Noma Marketing Suite,  
Manchester

|                             |             |                         |             |
|-----------------------------|-------------|-------------------------|-------------|
| <b>Quotation No.:</b>       |             | <b>Date Received:</b>   | 24-Aug-2022 |
| <b>Order No.:</b>           | 740523      | <b>Date Instructed:</b> | 24-Aug-2022 |
| <b>No. of Samples:</b>      | 10          |                         |             |
| <b>Turnaround (Wkdays):</b> | 5           | <b>Results Due:</b>     | 31-Aug-2022 |
| <b>Date Approved:</b>       | 31-Aug-2022 |                         |             |

**Approved By:**



**Details:** Stuart Henderson, Technical  
Manager

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## Results - Soil

**Project: LKC 22 1476 Noma Marketing Suite, Manchester**

|                                     |                             |            |              |            |                      |                      |                        |                        |                      |                      |                        |                      |
|-------------------------------------|-----------------------------|------------|--------------|------------|----------------------|----------------------|------------------------|------------------------|----------------------|----------------------|------------------------|----------------------|
| <b>Client: LK Consult</b>           | <b>Chemtest Job No.:</b>    |            |              |            | 22-32302             | 22-32302             | 22-32302               | 22-32302               | 22-32302             | 22-32302             | 22-32302               | 22-32302             |
| <b>Quotation No.:</b>               | <b>Chemtest Sample ID.:</b> |            |              |            | 1493289              | 1493290              | 1493291                | 1493292                | 1493293              | 1493294              | 1493295                | 1493296              |
| <b>Order No.: 740523</b>            | <b>Client Sample Ref.:</b>  |            |              |            | ES                   | ES                   | ES                     | ES                     | ES                   | ES                   | ES                     | ES                   |
|                                     | <b>Client Sample ID.:</b>   |            |              |            | HD101                | HD102                | HD103                  | HD104                  | HD105                | HD106                | HD107                  | HD108                |
|                                     | <b>Sample Location:</b>     |            |              |            | HD101                | HD102                | HD103                  | HD104                  | HD105                | HD106                | HD107                  | HD108                |
|                                     | <b>Sample Type:</b>         |            |              |            | SOIL                 | SOIL                 | SOIL                   | SOIL                   | SOIL                 | SOIL                 | SOIL                   | SOIL                 |
|                                     | <b>Date Sampled:</b>        |            |              |            | 23-Aug-2022          | 23-Aug-2022          | 23-Aug-2022            | 23-Aug-2022            | 23-Aug-2022          | 23-Aug-2022          | 23-Aug-2022            | 23-Aug-2022          |
|                                     | <b>Asbestos Lab:</b>        |            |              |            | DURHAM               | DURHAM               | DURHAM                 | DURHAM                 | DURHAM               | DURHAM               | DURHAM                 | DURHAM               |
| <b>Determinand</b>                  | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |                      |                      |                        |                        |                      |                      |                        |                      |
| ACM Type                            | U                           | 2192       |              | N/A        | -                    | -                    | -                      | -                      | -                    | -                    | -                      | -                    |
| Asbestos Identification             | U                           | 2192       |              | N/A        | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected   | No Asbestos Detected   | No Asbestos Detected | No Asbestos Detected | No Asbestos Detected   | No Asbestos Detected |
| Moisture                            | N                           | 2030       | %            | 0.020      | 17                   | 15                   | 16                     | 14                     | 12                   | 15                   | 14                     | 15                   |
| Soil Colour                         | N                           | 2040       |              | N/A        | Brown                | Brown                | Brown                  | Brown                  | Brown                | Brown                | Brown                  | Brown                |
| Other Material                      | N                           | 2040       |              | N/A        | Stones and Roots     | Stones and Roots     | Stones, Roots and Wood | Stones, Roots and Wood | Stones and Roots     | Stones and Roots     | Stones, Roots and Wood | Roots and Stones     |
| Soil Texture                        | N                           | 2040       |              | N/A        | Sand                 | Sand                 | Sand                   | Sand                   | Sand                 | Sand                 | Sand                   | Sand                 |
| Chromatogram (TPH)                  | N                           |            |              | N/A        | See Attached         | See Attached         | See Attached           | See Attached           | See Attached         | See Attached         | See Attached           | See Attached         |
| pH                                  | M                           | 2010       |              | 4.0        | 8.0                  | 7.8                  | 8.1                    | 6.8                    | 8.1                  | 7.2                  | 7.5                    | 7.3                  |
| Boron (Hot Water Soluble)           | M                           | 2120       | mg/kg        | 0.40       | 0.61                 | 1.1                  | 1.3                    | 0.60                   | 1.2                  | 0.59                 | 0.55                   | 0.68                 |
| Sulphate (2:1 Water Soluble) as SO4 | M                           | 2120       | g/l          | 0.010      | < 0.010              | 0.026                | 0.061                  | 0.012                  | < 0.010              | < 0.010              | < 0.010                | < 0.010              |
| Cyanide (Free)                      | M                           | 2300       | mg/kg        | 0.50       | < 0.50               | < 0.50               | < 0.50                 | < 0.50                 | < 0.50               | < 0.50               | < 0.50                 | < 0.50               |
| Cyanide (Total)                     | M                           | 2300       | mg/kg        | 0.50       | < 0.50               | < 0.50               | < 0.50                 | < 0.50                 | < 0.50               | < 0.50               | < 0.50                 | < 0.50               |
| Arsenic                             | M                           | 2455       | mg/kg        | 0.5        | 1.4                  | 1.3                  | 5.0                    | 2.0                    | 7.4                  | 4.5                  | 5.0                    | 3.3                  |
| Cadmium                             | M                           | 2455       | mg/kg        | 0.10       | < 0.10               | < 0.10               | 0.13                   | < 0.10                 | 0.21                 | 0.13                 | 0.13                   | < 0.10               |
| Chromium                            | M                           | 2455       | mg/kg        | 0.5        | 4.2                  | 4.3                  | 11                     | 4.9                    | 16                   | 11                   | 12                     | 5.9                  |
| Copper                              | M                           | 2455       | mg/kg        | 0.50       | 4.5                  | 4.3                  | 19                     | 6.2                    | 25                   | 17                   | 18                     | 12                   |
| Mercury                             | M                           | 2455       | mg/kg        | 0.05       | < 0.05               | < 0.05               | < 0.05                 | < 0.05                 | 0.05                 | < 0.05               | < 0.05                 | < 0.05               |
| Nickel                              | M                           | 2455       | mg/kg        | 0.50       | 3.9                  | 4.6                  | 7.5                    | 4.4                    | 11                   | 7.6                  | 7.8                    | 4.7                  |
| Lead                                | M                           | 2455       | mg/kg        | 0.50       | 6.5                  | 7.0                  | 21                     | 8.9                    | 27                   | 20                   | 21                     | 21                   |
| Selenium                            | M                           | 2455       | mg/kg        | 0.25       | < 0.25               | < 0.25               | 0.25                   | < 0.25                 | 0.40                 | < 0.25               | 0.27                   | < 0.25               |
| Vanadium                            | U                           | 2455       | mg/kg        | 0.5        | 4.7                  | 3.8                  | 11                     | 6.1                    | 16                   | 11                   | 11                     | 6.9                  |
| Zinc                                | M                           | 2455       | mg/kg        | 0.50       | 14                   | 13                   | 28                     | 18                     | 39                   | 29                   | 30                     | 35                   |
| Chromium (Hexavalent)               | N                           | 2490       | mg/kg        | 0.50       | < 0.50               | < 0.50               | < 0.50                 | < 0.50                 | < 0.50               | < 0.50               | < 0.50                 | < 0.50               |
| Organic Matter                      | M                           | 2625       | %            | 0.40       | 2.9                  | 1.6                  | 1.8                    | 3.3                    | 1.7                  | 3.4                  | 3.9                    | 3.1                  |
| Diesel Present                      | N                           | 2670       |              | N/A        | False                | False                | False                  | False                  | False                | False                | False                  | False                |
| Aliphatic TPH >C5-C6                | N                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |
| Aliphatic TPH >C6-C8                | N                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |
| Aliphatic TPH >C8-C10               | M                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |
| Aliphatic TPH >C10-C12              | M                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |
| Aliphatic TPH >C12-C16              | M                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |
| Aliphatic TPH >C16-C21              | M                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |
| Aliphatic TPH >C21-C35              | M                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |
| Aliphatic TPH >C35-C44              | N                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |
| Total Aliphatic Hydrocarbons        | N                           | 2680       | mg/kg        | 5.0        | < 5.0                | < 5.0                | < 5.0                  | < 5.0                  | < 5.0                | < 5.0                | < 5.0                  | < 5.0                |
| Aromatic TPH >C5-C7                 | N                           | 2680       | mg/kg        | 1.0        | < 1.0                | < 1.0                | < 1.0                  | < 1.0                  | < 1.0                | < 1.0                | < 1.0                  | < 1.0                |

## Results - Soil

**Project: LKC 22 1476 Noma Marketing Suite, Manchester**

|                              |                             |            |              |            |             |             |             |             |             |             |             |             |
|------------------------------|-----------------------------|------------|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Client: LK Consult</b>    | <b>Chemtest Job No.:</b>    |            |              |            | 22-32302    | 22-32302    | 22-32302    | 22-32302    | 22-32302    | 22-32302    | 22-32302    | 22-32302    |
| <b>Quotation No.:</b>        | <b>Chemtest Sample ID.:</b> |            |              |            | 1493289     | 1493290     | 1493291     | 1493292     | 1493293     | 1493294     | 1493295     | 1493296     |
| <b>Order No.: 740523</b>     | <b>Client Sample Ref.:</b>  |            |              |            | ES          | ES          | ES          | ES          | ES          | ES          | ES          | ES          |
|                              | <b>Client Sample ID.:</b>   |            |              |            | HD101       | HD102       | HD103       | HD104       | HD105       | HD106       | HD107       | HD108       |
|                              | <b>Sample Location:</b>     |            |              |            | HD101       | HD102       | HD103       | HD104       | HD105       | HD106       | HD107       | HD108       |
|                              | <b>Sample Type:</b>         |            |              |            | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        | SOIL        |
|                              | <b>Date Sampled:</b>        |            |              |            | 23-Aug-2022 | 23-Aug-2022 | 23-Aug-2022 | 23-Aug-2022 | 23-Aug-2022 | 23-Aug-2022 | 23-Aug-2022 | 23-Aug-2022 |
|                              | <b>Asbestos Lab:</b>        |            |              |            | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      | DURHAM      |
| <b>Determinand</b>           | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |             |             |             |             |             |             |             |             |
| Aromatic TPH >C7-C8          | N                           | 2680       | mg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Aromatic TPH >C8-C10         | M                           | 2680       | mg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Aromatic TPH >C10-C12        | M                           | 2680       | mg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Aromatic TPH >C12-C16        | M                           | 2680       | mg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Aromatic TPH >C16-C21        | U                           | 2680       | mg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Aromatic TPH >C21-C35        | M                           | 2680       | mg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Aromatic TPH >C35-C44        | N                           | 2680       | mg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Total Aromatic Hydrocarbons  | N                           | 2680       | mg/kg        | 5.0        | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0       | < 5.0       |
| Total Petroleum Hydrocarbons | N                           | 2680       | mg/kg        | 10.0       | < 10        | < 10        | < 10        | < 10        | < 10        | < 10        | < 10        | < 10        |
| Benzene                      | M                           | 2760       | µg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Toluene                      | M                           | 2760       | µg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Ethylbenzene                 | M                           | 2760       | µg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| m & p-Xylene                 | M                           | 2760       | µg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| o-Xylene                     | M                           | 2760       | µg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Methyl Tert-Butyl Ether      | M                           | 2760       | µg/kg        | 1.0        | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       | < 1.0       |
| Naphthalene                  | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Acenaphthylene               | N                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Acenaphthene                 | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Fluorene                     | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Phenanthrene                 | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Anthracene                   | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Fluoranthene                 | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | 0.32        | < 0.10      | < 0.10      | < 0.10      | 0.24        |
| Pyrene                       | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | 0.36        | < 0.10      | < 0.10      | < 0.10      | 0.21        |
| Benzo[a]anthracene           | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Chrysene                     | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Benzo[b]fluoranthene         | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Benzo[k]fluoranthene         | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Benzo[a]pyrene               | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Indeno(1,2,3-c,d)Pyrene      | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Dibenz(a,h)Anthracene        | N                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Benzo[g,h,i]perylene         | M                           | 2800       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |
| Total Of 16 PAH's            | N                           | 2800       | mg/kg        | 2.0        | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       | < 2.0       |
| Total Phenols                | M                           | 2920       | mg/kg        | 0.10       | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      | < 0.10      |

## Results - Soil

**Project: LKC 22 1476 Noma Marketing Suite, Manchester**

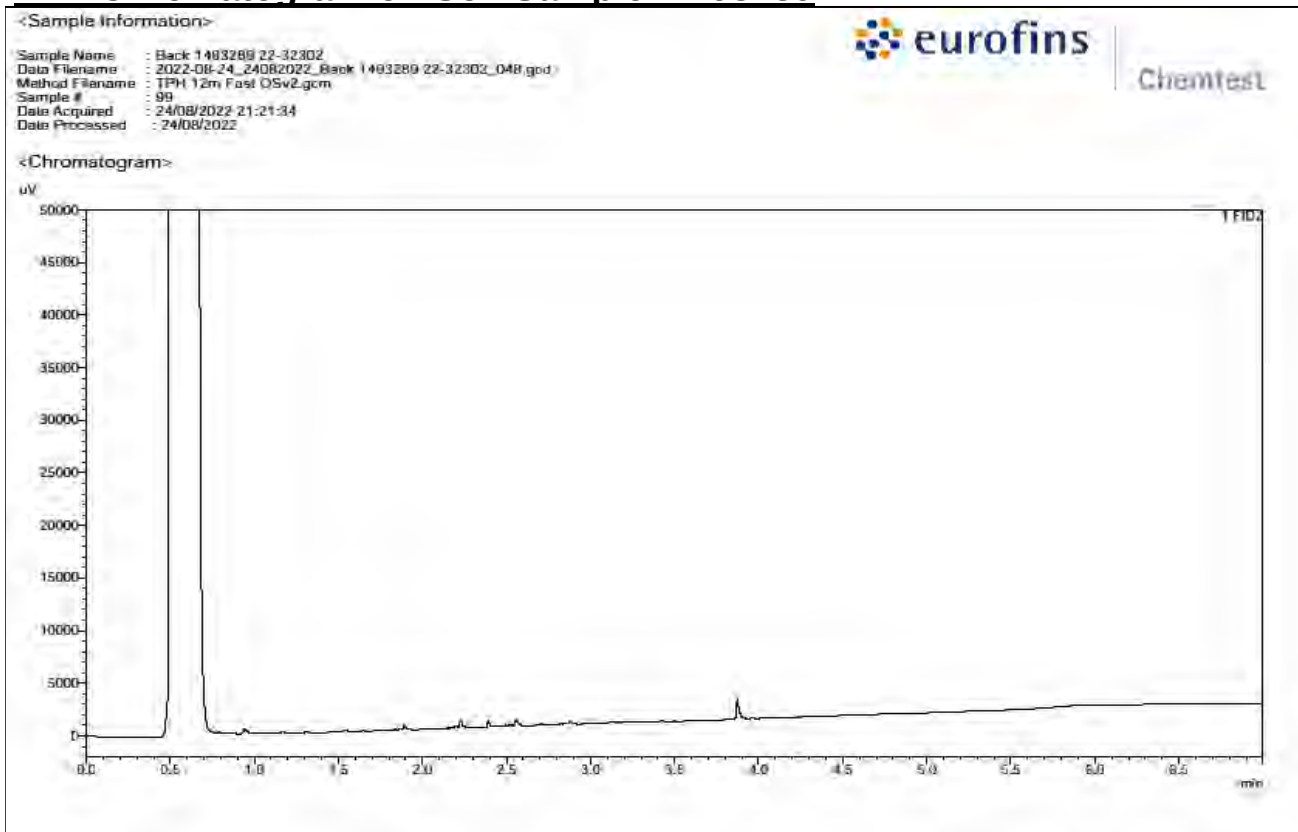
|                                     |                             |            |              |            |                        |                      |
|-------------------------------------|-----------------------------|------------|--------------|------------|------------------------|----------------------|
| <b>Client: LK Consult</b>           | <b>Chemtest Job No.:</b>    |            |              |            | 22-32302               | 22-32302             |
| Quotation No.:                      | <b>Chemtest Sample ID.:</b> |            |              |            | 1493297                | 1493298              |
| Order No.: 740523                   | Client Sample Ref.:         |            |              |            | ES                     | ES                   |
|                                     | Client Sample ID.:          |            |              |            | HD109                  | HD110                |
|                                     | Sample Location:            |            |              |            | HD109                  | HD110                |
|                                     | Sample Type:                |            |              |            | SOIL                   | SOIL                 |
|                                     | Date Sampled:               |            |              |            | 23-Aug-2022            | 23-Aug-2022          |
|                                     | Asbestos Lab:               |            |              |            | DURHAM                 | DURHAM               |
| <b>Determinand</b>                  | <b>Accred.</b>              | <b>SOP</b> | <b>Units</b> | <b>LOD</b> |                        |                      |
| ACM Type                            | U                           | 2192       |              | N/A        | -                      | -                    |
| Asbestos Identification             | U                           | 2192       |              | N/A        | No Asbestos Detected   | No Asbestos Detected |
| Moisture                            | N                           | 2030       | %            | 0.020      | 22                     | 26                   |
| Soil Colour                         | N                           | 2040       |              | N/A        | Brown                  | Brown                |
| Other Material                      | N                           | 2040       |              | N/A        | Stones, Roots and Wood | Stones and Roots     |
| Soil Texture                        | N                           | 2040       |              | N/A        | Sand                   | Sand                 |
| Chromatogram (TPH)                  | N                           |            |              | N/A        | See Attached           | See Attached         |
| pH                                  | M                           | 2010       |              | 4.0        | 8.2                    | 8.1                  |
| Boron (Hot Water Soluble)           | M                           | 2120       | mg/kg        | 0.40       | 2.3                    | 3.0                  |
| Sulphate (2:1 Water Soluble) as SO4 | M                           | 2120       | g/l          | 0.010      | 0.17                   | 0.21                 |
| Cyanide (Free)                      | M                           | 2300       | mg/kg        | 0.50       | < 0.50                 | < 0.50               |
| Cyanide (Total)                     | M                           | 2300       | mg/kg        | 0.50       | < 0.50                 | < 0.50               |
| Arsenic                             | M                           | 2455       | mg/kg        | 0.5        | 4.6                    | 7.0                  |
| Cadmium                             | M                           | 2455       | mg/kg        | 0.10       | < 0.10                 | 0.11                 |
| Chromium                            | M                           | 2455       | mg/kg        | 0.5        | 6.6                    | 7.5                  |
| Copper                              | M                           | 2455       | mg/kg        | 0.50       | 11                     | 11                   |
| Mercury                             | M                           | 2455       | mg/kg        | 0.05       | < 0.05                 | < 0.05               |
| Nickel                              | M                           | 2455       | mg/kg        | 0.50       | 6.1                    | 5.6                  |
| Lead                                | M                           | 2455       | mg/kg        | 0.50       | 20                     | 25                   |
| Selenium                            | M                           | 2455       | mg/kg        | 0.25       | < 0.25                 | < 0.25               |
| Vanadium                            | U                           | 2455       | mg/kg        | 0.5        | 8.5                    | 10                   |
| Zinc                                | M                           | 2455       | mg/kg        | 0.50       | 35                     | 46                   |
| Chromium (Hexavalent)               | N                           | 2490       | mg/kg        | 0.50       | < 0.50                 | < 0.50               |
| Organic Matter                      | M                           | 2625       | %            | 0.40       | 5.8                    | 8.9                  |
| Diesel Present                      | N                           | 2670       |              | N/A        | False                  | False                |
| Aliphatic TPH >C5-C6                | N                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |
| Aliphatic TPH >C6-C8                | N                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |
| Aliphatic TPH >C8-C10               | M                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |
| Aliphatic TPH >C10-C12              | M                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |
| Aliphatic TPH >C12-C16              | M                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |
| Aliphatic TPH >C16-C21              | M                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |
| Aliphatic TPH >C21-C35              | M                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |
| Aliphatic TPH >C35-C44              | N                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |
| Total Aliphatic Hydrocarbons        | N                           | 2680       | mg/kg        | 5.0        | < 5.0                  | < 5.0                |
| Aromatic TPH >C5-C7                 | N                           | 2680       | mg/kg        | 1.0        | < 1.0                  | < 1.0                |

## Results - Soil

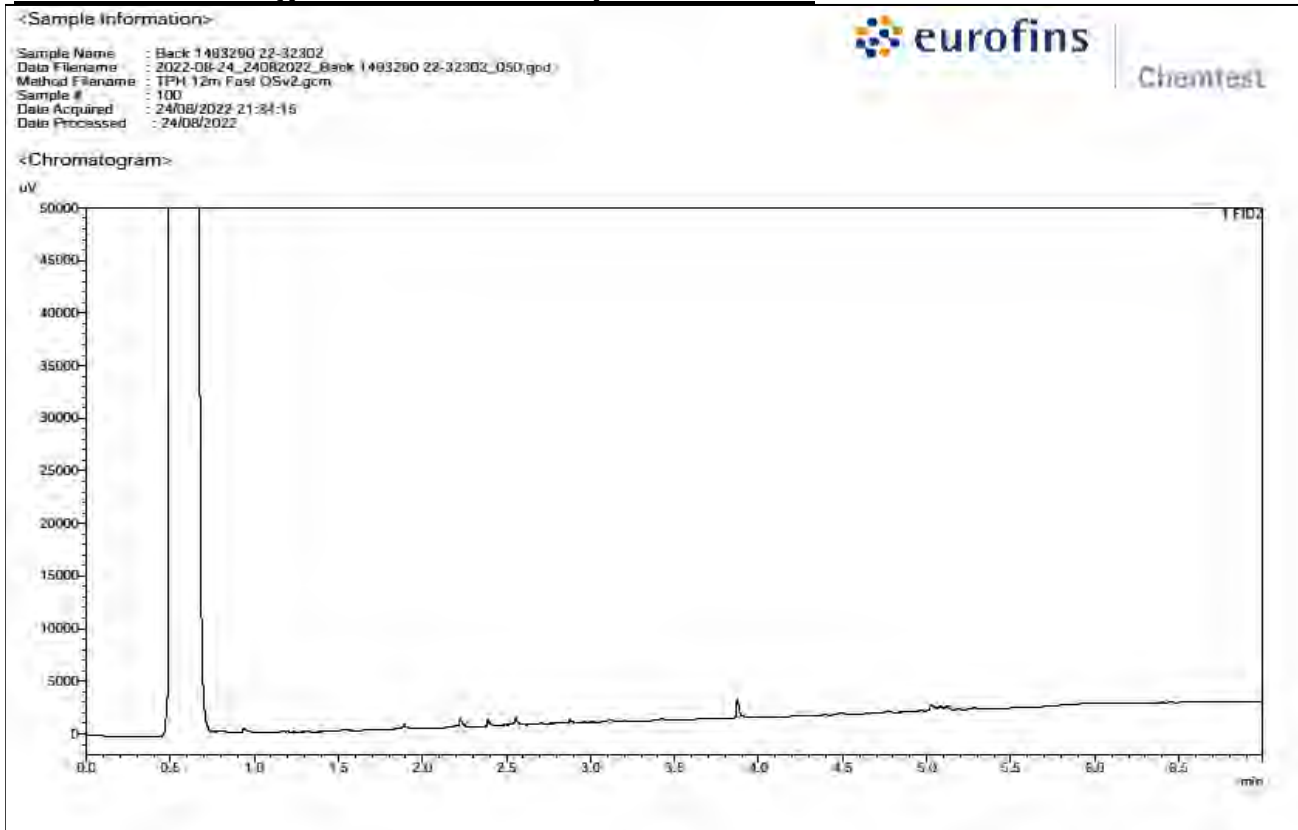
**Project: LKC 22 1476 Noma Marketing Suite, Manchester**

|                              |                      |      |       |      |             |             |
|------------------------------|----------------------|------|-------|------|-------------|-------------|
| Client: LK Consult           | Chemtest Job No.:    |      |       |      | 22-32302    | 22-32302    |
| Quotation No.:               | Chemtest Sample ID.: |      |       |      | 1493297     | 1493298     |
| Order No.: 740523            | Client Sample Ref.:  |      |       |      | ES          | ES          |
|                              | Client Sample ID.:   |      |       |      | HD109       | HD110       |
|                              | Sample Location:     |      |       |      | HD109       | HD110       |
|                              | Sample Type:         |      |       |      | SOIL        | SOIL        |
|                              | Date Sampled:        |      |       |      | 23-Aug-2022 | 23-Aug-2022 |
|                              | Asbestos Lab:        |      |       |      | DURHAM      | DURHAM      |
| Determinand                  | Accred.              | SOP  | Units | LOD  |             |             |
| Aromatic TPH >C7-C8          | N                    | 2680 | mg/kg | 1.0  | < 1.0       | < 1.0       |
| Aromatic TPH >C8-C10         | M                    | 2680 | mg/kg | 1.0  | < 1.0       | < 1.0       |
| Aromatic TPH >C10-C12        | M                    | 2680 | mg/kg | 1.0  | < 1.0       | < 1.0       |
| Aromatic TPH >C12-C16        | M                    | 2680 | mg/kg | 1.0  | < 1.0       | < 1.0       |
| Aromatic TPH >C16-C21        | U                    | 2680 | mg/kg | 1.0  | < 1.0       | < 1.0       |
| Aromatic TPH >C21-C35        | M                    | 2680 | mg/kg | 1.0  | < 1.0       | < 1.0       |
| Aromatic TPH >C35-C44        | N                    | 2680 | mg/kg | 1.0  | < 1.0       | < 1.0       |
| Total Aromatic Hydrocarbons  | N                    | 2680 | mg/kg | 5.0  | < 5.0       | < 5.0       |
| Total Petroleum Hydrocarbons | N                    | 2680 | mg/kg | 10.0 | < 10        | < 10        |
| Benzene                      | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| Toluene                      | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| Ethylbenzene                 | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| m & p-Xylene                 | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| o-Xylene                     | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| Methyl Tert-Butyl Ether      | M                    | 2760 | µg/kg | 1.0  | < 1.0       | < 1.0       |
| Naphthalene                  | M                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Acenaphthylene               | N                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Acenaphthene                 | M                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Fluorene                     | M                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Phenanthrene                 | M                    | 2800 | mg/kg | 0.10 | 0.26        | 0.46        |
| Anthracene                   | M                    | 2800 | mg/kg | 0.10 | 0.13        | 0.16        |
| Fluoranthene                 | M                    | 2800 | mg/kg | 0.10 | 0.63        | 0.50        |
| Pyrene                       | M                    | 2800 | mg/kg | 0.10 | 0.42        | 0.43        |
| Benzo[a]anthracene           | M                    | 2800 | mg/kg | 0.10 | < 0.10      | 0.39        |
| Chrysene                     | M                    | 2800 | mg/kg | 0.10 | < 0.10      | 0.46        |
| Benzo[b]fluoranthene         | M                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Benzo[k]fluoranthene         | M                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Benzo[a]pyrene               | M                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Indeno(1,2,3-c,d)Pyrene      | M                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Dibenz(a,h)Anthracene        | N                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Benzo[g,h,i]perylene         | M                    | 2800 | mg/kg | 0.10 | < 0.10      | < 0.10      |
| Total Of 16 PAH's            | N                    | 2800 | mg/kg | 2.0  | < 2.0       | 2.4         |
| Total Phenols                | M                    | 2920 | mg/kg | 0.10 | 0.13        | < 0.10      |

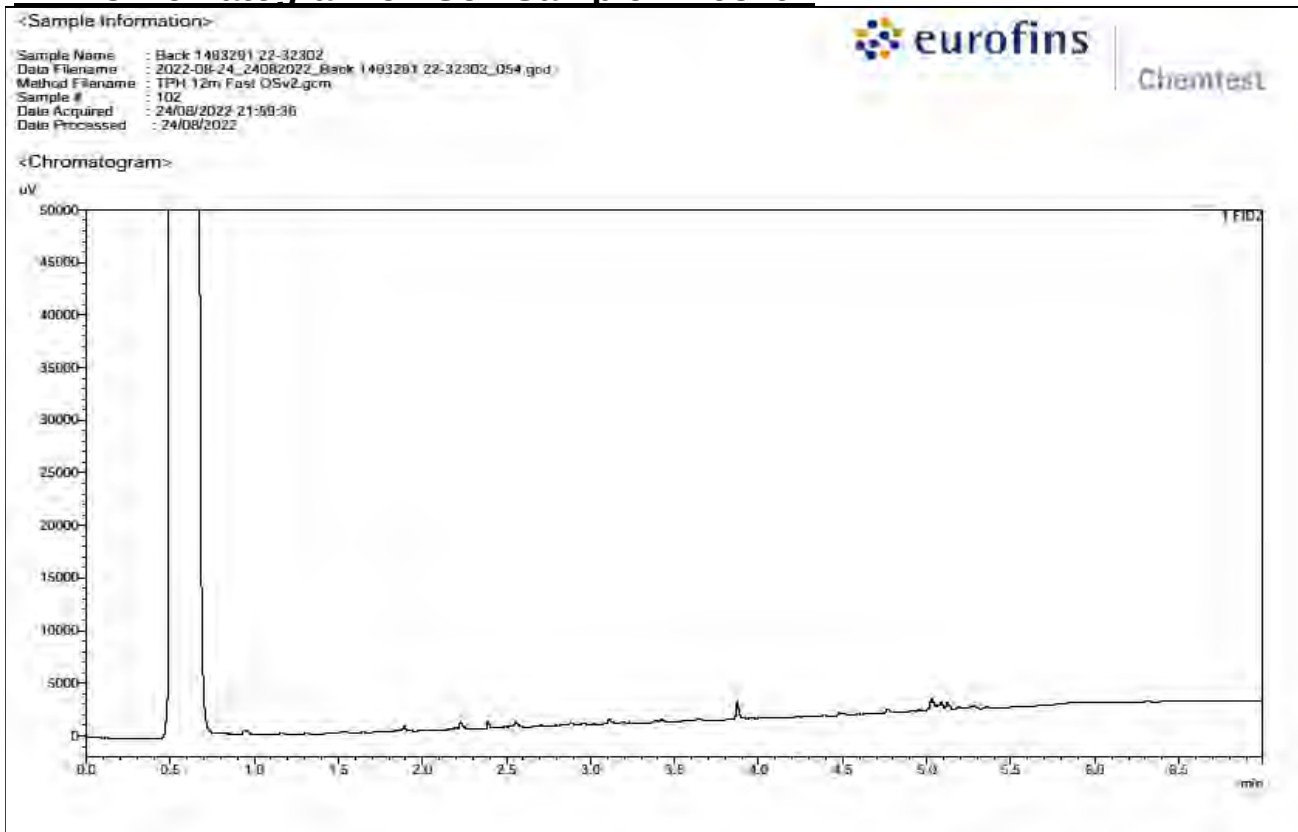
# TPH Chromatogram on Soil Sample: 1493289



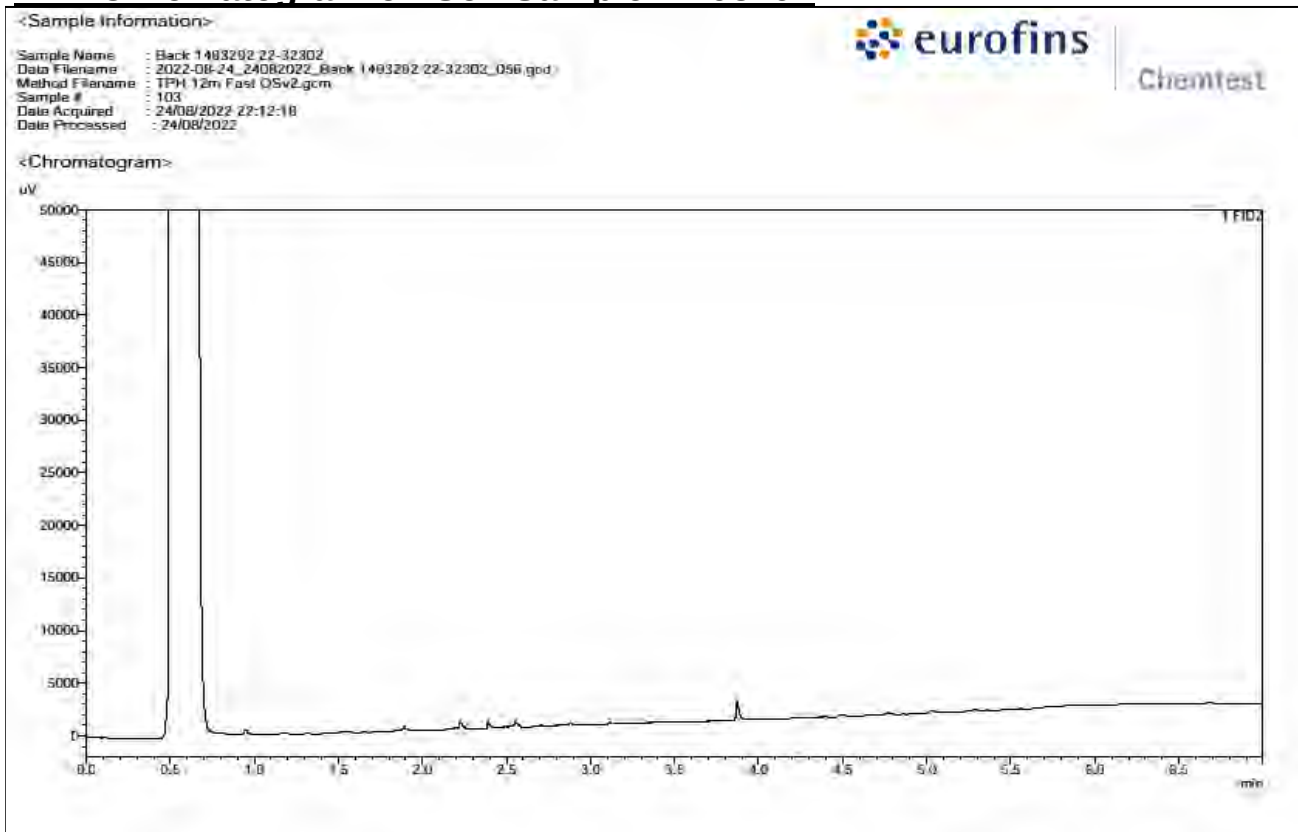
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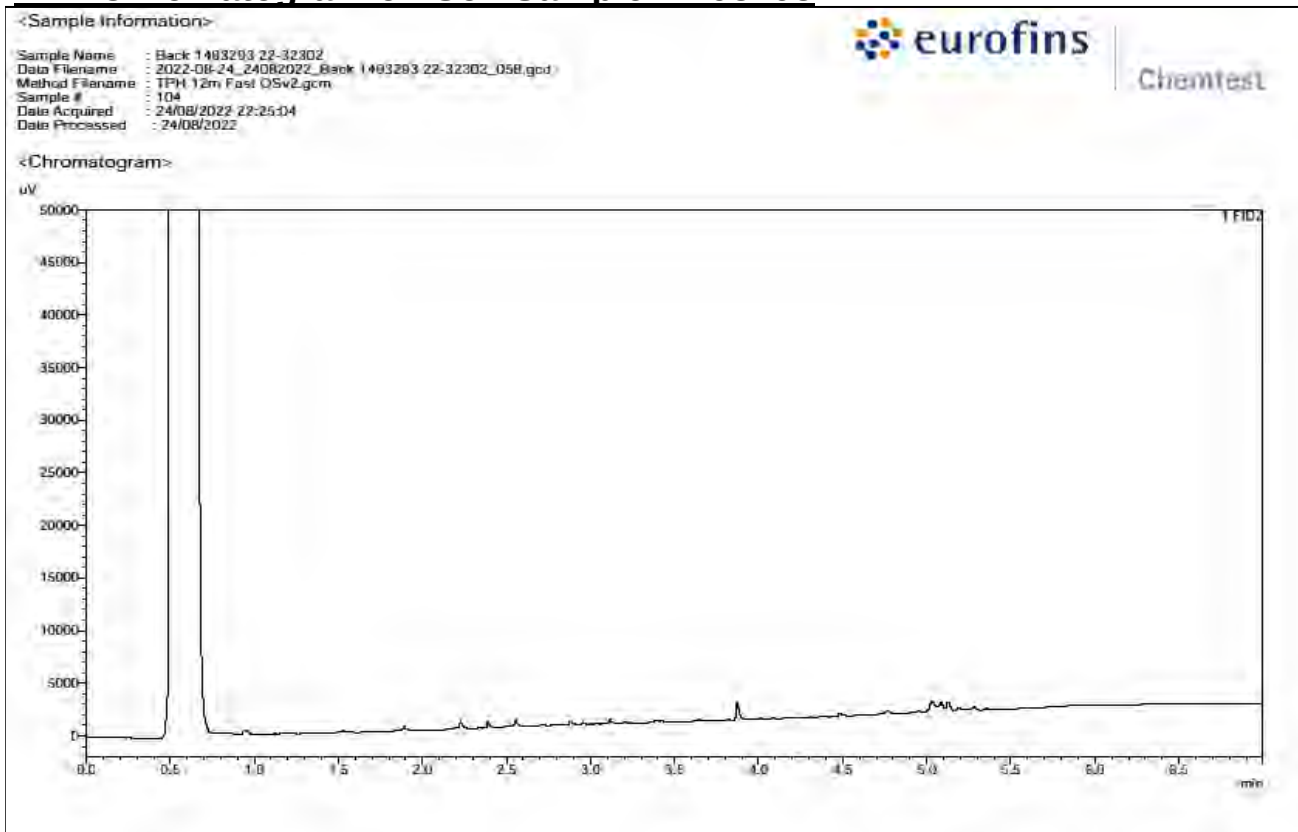
# TPH Chromatogram on Soil Sample: 1493291



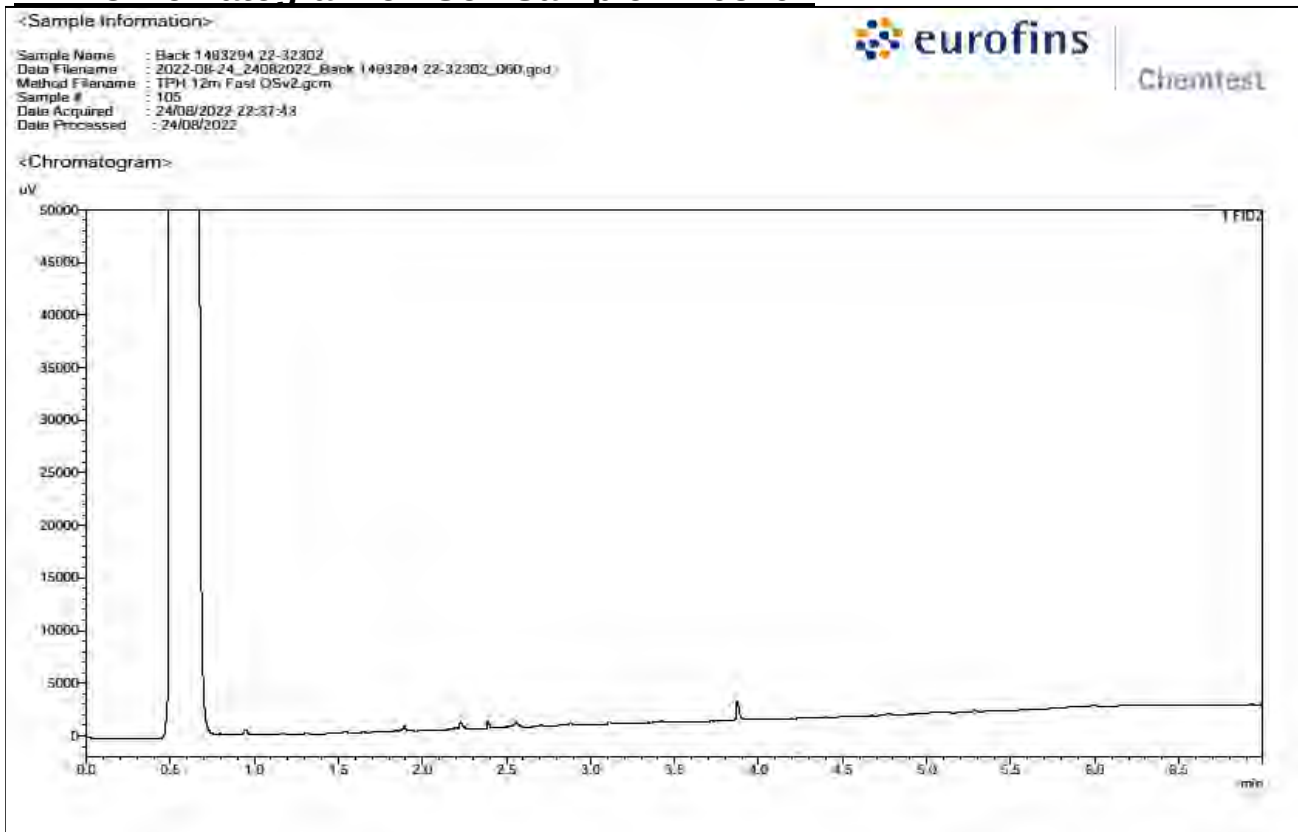
# TPH Chromatogram on Soil Sample: 1493292



# TPH Chromatogram on Soil Sample: 1493293



# TPH Chromatogram on Soil Sample: 1493294



# TPH Chromatogram on Soil Sample: 1493295

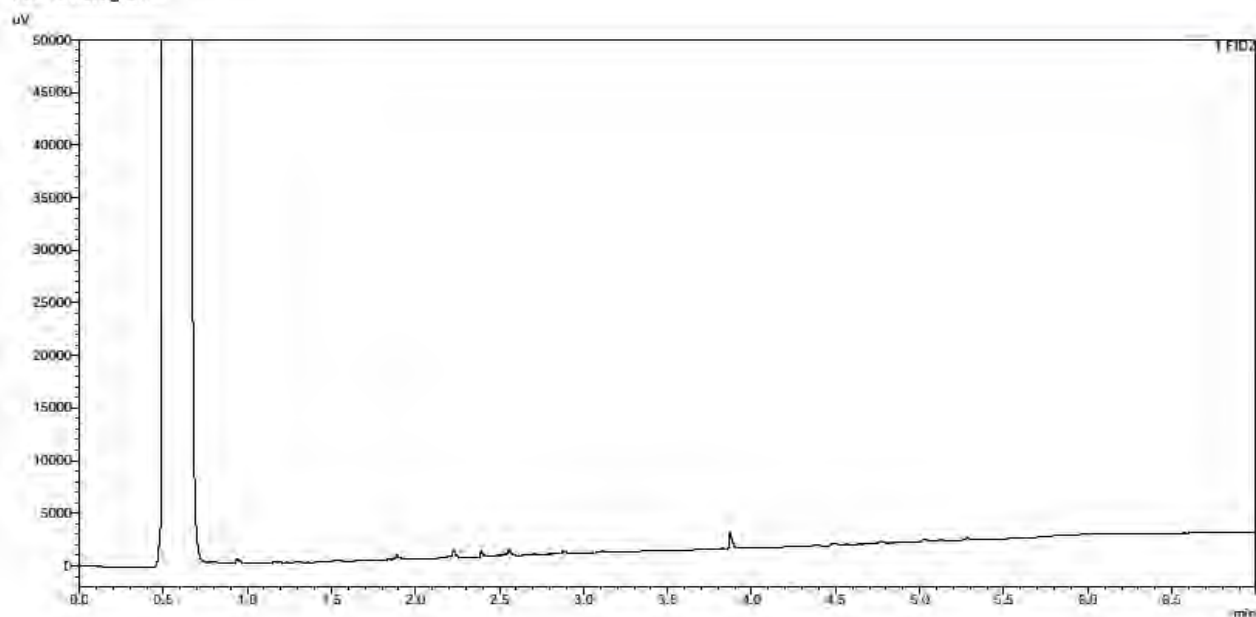
## <Sample Information>

Sample Name : Back 1493295 22-32302  
Data Filename : 2022-08-24\_24082022\_Back 1493295 22-32302\_062.gcd  
Method Filename : TPH 12m Fast Q5v2.gcm  
Sample # : 100  
Date Acquired : 24/08/2022 22:50:23  
Date Processed : 24/08/2022

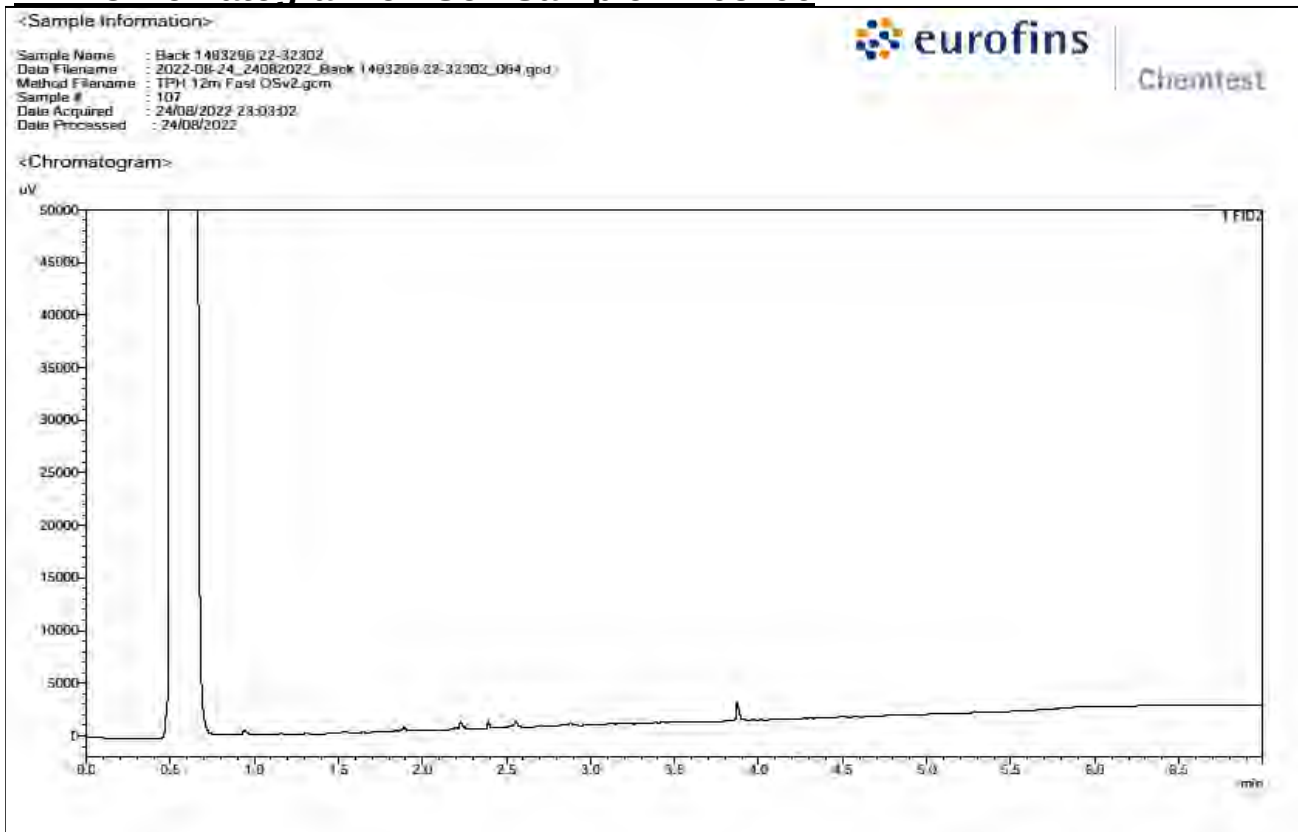


Chemtest

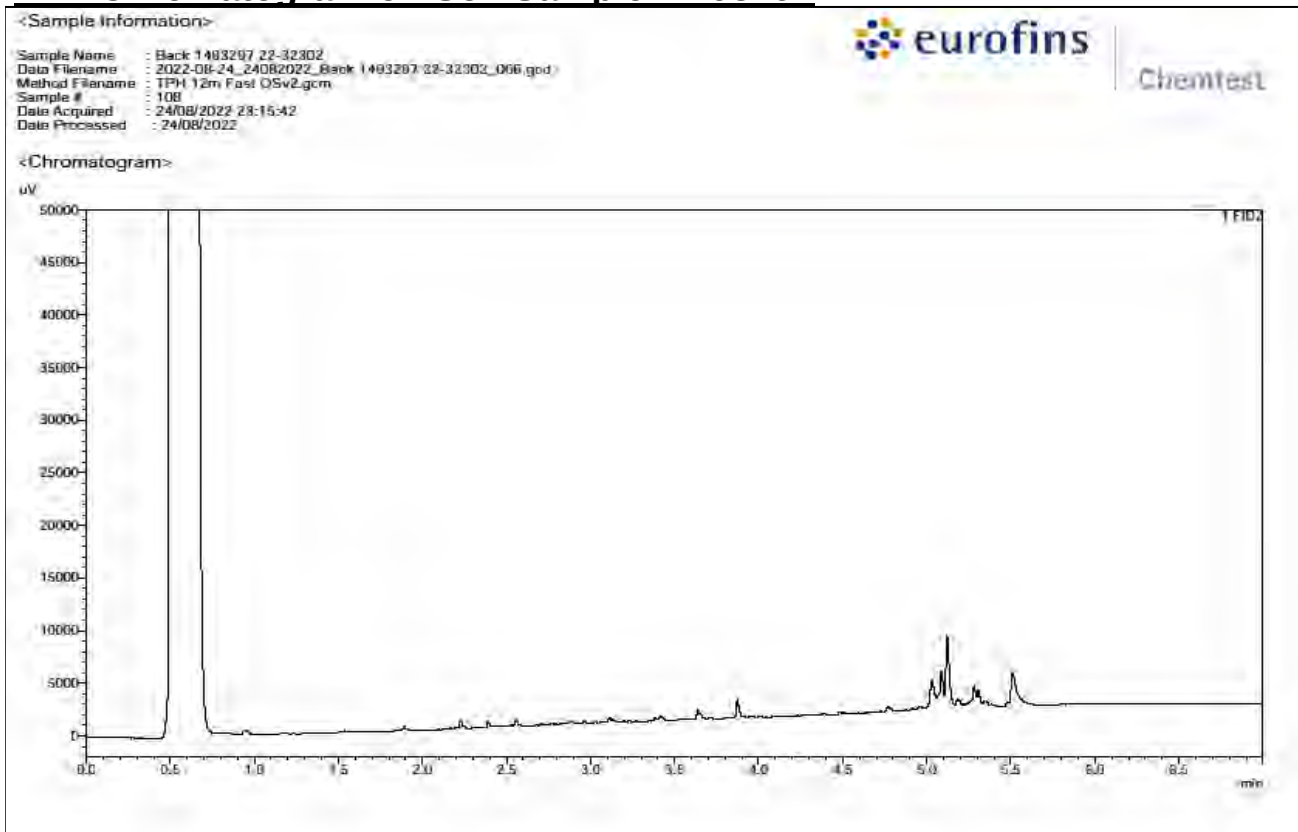
## <Chromatogram>



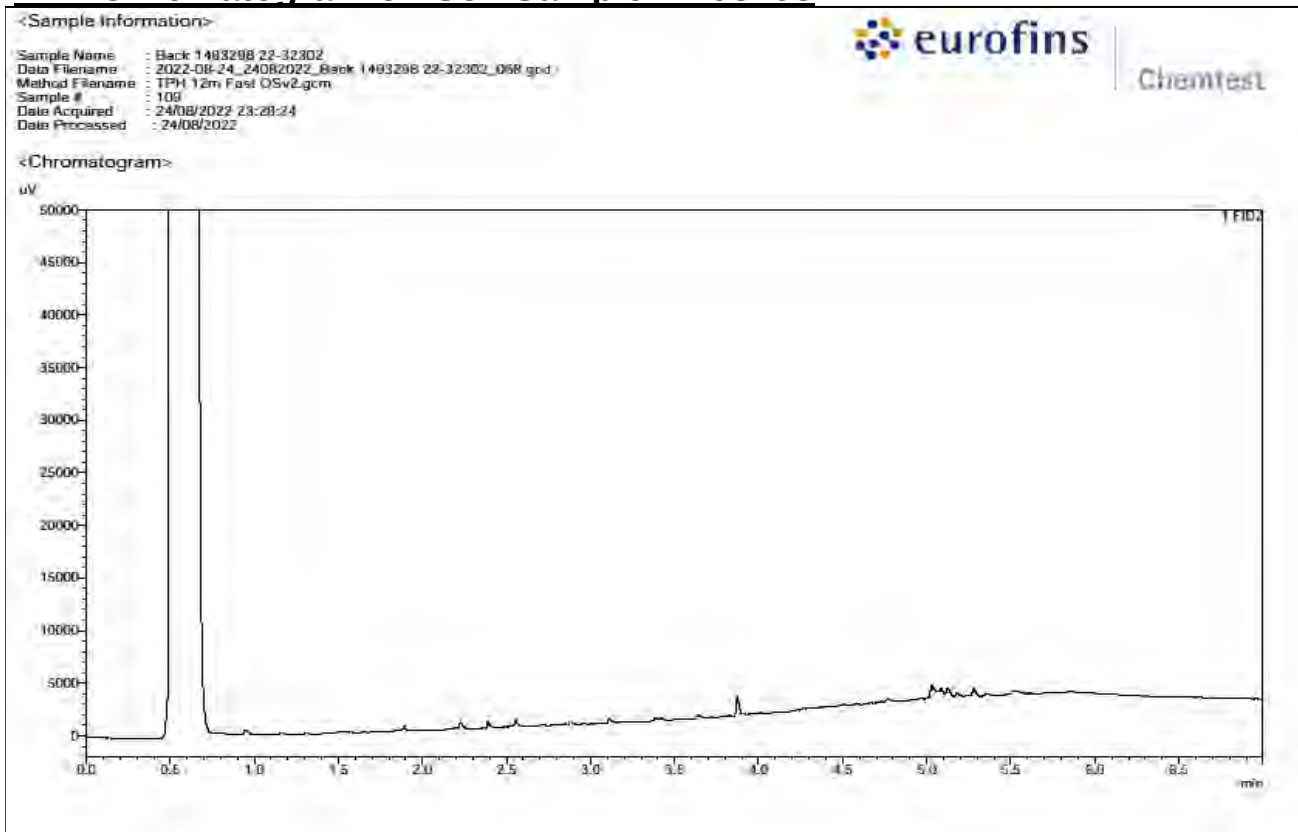
# TPH Chromatogram on Soil Sample: 1493296



# TPH Chromatogram on Soil Sample: 1493297



# TPH Chromatogram on Soil Sample: 1493298



### TPH Interpretation

| Job      | Sample  | Matrix | Location | Sample Ref | Sample ID | Sample Depth (m) | Gasoline / Diesel Present | TPH Interpretation |
|----------|---------|--------|----------|------------|-----------|------------------|---------------------------|--------------------|
| 22-32302 | 1493289 | S      | HD101    | ES         | HD101     |                  | No                        | N/A                |
| 22-32302 | 1493290 | S      | HD102    | ES         | HD102     |                  | No                        | N/A                |
| 22-32302 | 1493291 | S      | HD103    | ES         | HD103     |                  | No                        | N/A                |
| 22-32302 | 1493292 | S      | HD104    | ES         | HD104     |                  | No                        | N/A                |
| 22-32302 | 1493293 | S      | HD105    | ES         | HD105     |                  | No                        | N/A                |
| 22-32302 | 1493294 | S      | HD106    | ES         | HD106     |                  | No                        | N/A                |
| 22-32302 | 1493295 | S      | HD107    | ES         | HD107     |                  | No                        | N/A                |
| 22-32302 | 1493296 | S      | HD108    | ES         | HD108     |                  | No                        | N/A                |
| 22-32302 | 1493297 | S      | HD109    | ES         | HD109     |                  | No                        | N/A                |
| 22-32302 | 1493298 | S      | HD110    | ES         | HD110     |                  | No                        | N/A                |

## Test Methods

| SOP  | Title                                                              | Parameters included                                                                                                                                                                                                                                                        | Method summary                                                                                                                                                                         |
|------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2010 | pH Value of Soils                                                  | pH                                                                                                                                                                                                                                                                         | pH Meter                                                                                                                                                                               |
| 2030 | Moisture and Stone Content of Soils(Requirement of MCERTS)         | Moisture content                                                                                                                                                                                                                                                           | Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.                                                                                   |
| 2040 | Soil Description(Requirement of MCERTS)                            | Soil description                                                                                                                                                                                                                                                           | As received soil is described based upon BS5930                                                                                                                                        |
| 2120 | Water Soluble Boron, Sulphate, Magnesium & Chromium                | Boron; Sulphate; Magnesium; Chromium                                                                                                                                                                                                                                       | Aqueous extraction / ICP-OES                                                                                                                                                           |
| 2192 | Asbestos                                                           | Asbestos                                                                                                                                                                                                                                                                   | Polarised light microscopy / Gravimetry                                                                                                                                                |
| 2300 | Cyanides & Thiocyanate in Soils                                    | Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate                                                                                                                                                                                            | Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.                                                                                    |
| 2490 | Hexavalent Chromium in Soils                                       | Chromium [VI]                                                                                                                                                                                                                                                              | Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine. |
| 2625 | Total Organic Carbon in Soils                                      | Total organic Carbon (TOC)                                                                                                                                                                                                                                                 | Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.                                                                                             |
| 2670 | Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID              | TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40                                                                                                                                                                                             | Dichloromethane extraction / GC-FID                                                                                                                                                    |
| 2680 | TPH A/A Split                                                      | Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44                                                                                              | Dichloromethane extraction / GCxGC FID detection                                                                                                                                       |
| 2760 | Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS      | Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule                                                                                                                                       | Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.                             |
| 2800 | Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS | Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene* | Dichloromethane extraction / GC-MS                                                                                                                                                     |
| 2920 | Phenols in Soils by HPLC                                           | Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.                                                                                                                          | 60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.                                                                               |

## **Report Information**

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### **Key**

|     |                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------|
| U   | UKAS accredited                                                                                               |
| M   | MCERTS and UKAS accredited                                                                                    |
| N   | Unaccredited                                                                                                  |
| S   | This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis     |
| SN  | This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis |
| T   | This analysis has been subcontracted to an unaccredited laboratory                                            |
| I/S | Insufficient Sample                                                                                           |
| U/S | Unsuitable Sample                                                                                             |
| N/E | not evaluated                                                                                                 |
| <   | "less than"                                                                                                   |
| >   | "greater than"                                                                                                |
| SOP | Standard operating procedure                                                                                  |
| LOD | Limit of detection                                                                                            |

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

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### **Sample Deviation Codes**

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

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### **Sample Retention and Disposal**

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)

## **APPENDIX C**

### **GENERIC ASSESSMENT CRITERIA - SOIL**

## CATEGORY 4 SCREENING LEVELS

| Substance             | Residential<br>(with<br>home-<br>grown<br>produce) | Residential<br>(without<br>home-<br>grown<br>produce) | Allotments | Commercial | Public<br>Open<br>Space 1 | Public<br>Open<br>Space 2 |
|-----------------------|----------------------------------------------------|-------------------------------------------------------|------------|------------|---------------------------|---------------------------|
| <b>Arsenic</b>        | 37 mg/kg                                           | 40 mg/kg                                              | 49 mg/kg   | 640 mg/kg  | 79 mg/kg                  | 170<br>mg/kg              |
| <b>Benzene</b>        | 0.87 mg/kg                                         | 3.3 mg/kg                                             | 0.18 mg/kg | 98 mg/kg   | 140<br>mg/kg              | 230<br>mg/kg              |
| <b>Benzo(a)pyrene</b> | 5.0 mg/kg                                          | 5.3 mg/kg                                             | 5.7 mg/kg  | 77 mg/kg   | 10 mg/kg                  | 21 mg/kg                  |
| <b>Cadmium</b>        | 22 mg/kg                                           | 150 mg/kg                                             | 3.9 mg/kg  | 410 mg/kg  | 220<br>mg/kg              | 880<br>mg/kg              |
| <b>Chromium VI</b>    | 21 mg/kg                                           | 21 mg/kg                                              | 170 mg/kg  | 49 mg/kg   | 21 mg/kg                  | 250<br>mg/kg              |
| <b>Lead</b>           | 200 mg/kg                                          | 310 mg/kg                                             | 80 mg/kg   | 2300 mg/kg | 630<br>mg/kg              | 1300<br>mg/kg             |

|                                              |                 |                 |                 |               |                |                |
|----------------------------------------------|-----------------|-----------------|-----------------|---------------|----------------|----------------|
| <b>Tetrachlorethene<br/>(PCE) – 1% SOM</b>   | 0.31<br>mg/kg   | 0.32<br>mg/kg   | 2.0<br>mg/kg    | 24<br>mg/kg   | 3,200<br>mg/kg | 1,400<br>mg/kg |
| <b>Tetrachlorethene<br/>(PCE) – 2.5% SOM</b> | 0.70<br>mg/kg   | 0.71<br>mg/kg   | 4.8<br>mg/kg    | 55<br>mg/kg   | 3,300<br>mg/kg | 1,900<br>mg/kg |
| <b>Tetrachlorethene<br/>(PCE) – 6% SOM</b>   | 1.6 mg/kg       | 1.6<br>mg/kg    | 11<br>mg/kg     | 130<br>mg/kg  | 3,400<br>mg/kg | 2,500<br>mg/kg |
| <b>Trichlorethene<br/>(TCE) – 1% SOM</b>     | 0.0093<br>mg/kg | 0.0097<br>mg/kg | 0.032<br>mg/kg  | 0.73<br>mg/kg | 76<br>mg/kg    | 41<br>mg/kg    |
| <b>Trichlorethene<br/>(TCE) – 2.5% SOM</b>   | 0.020<br>mg/kg  | 0.020<br>mg/kg  | 0.072<br>mg/kg  | 1.5<br>mg/kg  | 78<br>mg/kg    | 54<br>mg/kg    |
| <b>Trichlorethene<br/>(TCE) – 6% SOM</b>     | 0.043<br>mg/kg  | 0.045<br>mg/kg  | 0.16<br>mg/kg   | 3.4<br>mg/kg  | 79<br>mg/kg    | 69<br>mg/kg    |
| <b>Vinyl Chloride<br/>(VC) – 1% SOM</b>      | 0.0064<br>mg/kg | 0.015<br>mg/kg  | 0.0017<br>mg/kg | 1.1<br>mg/kg  | 7.8<br>mg/kg   | 18<br>mg/kg    |
| <b>Vinyl Chloride<br/>(VC) – 2.5% SOM</b>    | 0.010<br>mg/kg  | 0.019<br>mg/kg  | 0.0031<br>mg/kg | 1.4<br>mg/kg  | 7.8<br>mg/kg   | 19<br>mg/kg    |
| <b>Vinyl Chloride<br/>(VC) – 6% SOM</b>      | 0.017<br>mg/kg  | 0.029<br>mg/kg  | 0.0058<br>mg/kg | 2.2<br>mg/kg  | 7.8<br>mg/kg   | 19<br>mg/kg    |
| <b>1,2-Dichloroethane<br/>1% SOM</b>         | 0.11<br>mg/kg   | 0.16<br>mg/kg   | 0.054<br>mg/kg  | 12<br>mg/kg   | 300<br>mg/kg   | 300<br>mg/kg   |
| <b>1,2-Dichloroethane<br/>2.5% SOM</b>       | 0.18<br>mg/kg   | 0.24<br>mg/kg   | 0.10<br>mg/kg   | 17<br>mg/kg   | 310<br>mg/kg   | 330<br>mg/kg   |
| <b>1,2-Dichloroethane<br/>6% SOM</b>         | 0.31<br>mg/kg   | 0.41<br>mg/kg   | 0.19<br>mg/kg   | 29<br>mg/kg   | 310<br>mg/kg   | 380<br>mg/kg   |

## Summary Table for the Generic Assessment Criteria for Human Health Risk Assessment Land Quality Management (LQM) S4ULs.

All GAC are based on sandy  
loam soils with a pH 7.

| All GAC are based on sandy loam soils with a pH 7. |                      |       | LQM Generic Assessment Criteria (mg/kg) Dry weight soil |                          |         |                                |                     |                                |
|----------------------------------------------------|----------------------|-------|---------------------------------------------------------|--------------------------|---------|--------------------------------|---------------------|--------------------------------|
| Contaminant                                        |                      | SOM   | Res +                                                   | Res -                    | Allot.  | Comm.                          | POS <sub>resi</sub> | POS <sub>park</sub>            |
| Metals                                             | Inorganic Arsenic    | 6%    | 37                                                      | 40                       | 43      | 640                            | 79                  | 170                            |
|                                                    | Beryllium            | 6%    | 1.7                                                     | 1.7                      | 35      | 12                             | 2.2                 | 63                             |
|                                                    | Boron                | 6%    | 290                                                     | 11,000                   | 45      | 240,000                        | 21,000              | 46,000                         |
|                                                    | Cadmium              | 6%    | 11                                                      | 85                       | 1.9     | 190                            | 120                 | 532                            |
|                                                    | Chromium (III)       | 6%    | 910                                                     | 910                      | 18,000  | 8,600                          | 1,500               | 33,000                         |
|                                                    | Chromium (VI)        | 6%    | 6.0                                                     | 6.0                      | 1.8     | 33                             | 7.7                 | 220                            |
|                                                    | Copper               | 6%    | 2,400                                                   | 7,100                    | 520     | 68,000                         | 12,000              | 44,000                         |
|                                                    | Elemental Mercury    | 6%    | 1.2                                                     | 1.2                      | 21      | 58 (25.8) <sup>vap</sup>       | 16                  | 30 (25.8) <sup>vap</sup>       |
|                                                    | Inorganic Mercury    | 6%    | 40                                                      | 56                       | 19      | 1,100                          | 120                 | 240                            |
|                                                    | Methylmercury        | 6%    | 11                                                      | 15                       | 6.0     | 320                            | 40                  | 68                             |
|                                                    | Nickel (update 2015) | 6%    | 126                                                     | 181                      | 53      | 983                            | 231                 | 804                            |
|                                                    | Selenium             | 6%    | 250                                                     | 430                      | 88      | 12,000                         | 1,100               | 1,800                          |
|                                                    | Vanadium             | 6%    | 410                                                     | 1,200                    | 91      | 9,000                          | 2,000               | 5,000                          |
| Zinc                                               | 6%                   | 3,700 | 40,000                                                  | 620                      | 730,000 | 81,000                         | 170,000             |                                |
| BTEX Compounds                                     | Benzene              | 1%    | 0.087                                                   | 0.38                     | 0.017   | 27                             | 72                  | 90                             |
|                                                    |                      | 2.5%  | 0.17                                                    | 0.70                     | 0.034   | 47                             | 72                  | 100                            |
|                                                    |                      | 6%    | 0.37                                                    | 1.4                      | 0.075   | 90                             | 73                  | 110                            |
|                                                    | Toluene              | 1%    | 130                                                     | 880 (869) <sup>vap</sup> | 22      | 56,000 (869) <sup>vap</sup>    | 56,000              | 87,000 (869) <sup>vap</sup>    |
|                                                    |                      | 2.5%  | 290                                                     | 1,900                    | 51      | 110,000 (1,920) <sup>vap</sup> | 56,000              | 95,000 (1,920) <sup>vap</sup>  |
|                                                    |                      | 6%    | 660                                                     | 3,900                    | 120     | 180,000 (4,360) <sup>vap</sup> | 56,000              | 100,000 (4,360) <sup>vap</sup> |
|                                                    | Ethylbenzene         | 1%    | 47                                                      | 83                       | 16      | 5,700 (518) <sup>vap</sup>     | 24,000              | 17,000 (518) <sup>vap</sup>    |
|                                                    |                      | 2.5%  | 110                                                     | 190                      | 39      | 13,000 (1,220) <sup>vap</sup>  | 24,000              | 22,000 (1,220) <sup>vap</sup>  |
|                                                    |                      | 6%    | 260                                                     | 440                      | 91      | 27,000 (2,840) <sup>vap</sup>  | 25,000              | 27,000 (2,840) <sup>vap</sup>  |
|                                                    | o-xylene             | 1%    | 60                                                      | 88                       | 28      | 6,600 (478) <sup>sol</sup>     | 41,000              | 17,000 (478) <sup>sol</sup>    |
|                                                    |                      | 2.5%  | 140                                                     | 210                      | 67      | 15,000 (1,120) <sup>sol</sup>  | 42,000              | 24,000 (1,120) <sup>sol</sup>  |
|                                                    |                      | 6%    | 330                                                     | 480                      | 160     | 33,000 (2,620) <sup>sol</sup>  | 43,000              | 33,000 (2,620) <sup>sol</sup>  |
|                                                    | m-xylene             | 1%    | 59                                                      | 82                       | 31      | 6,200 (625) <sup>vap</sup>     | 41,000              | 17,000 (625) <sup>vap</sup>    |
|                                                    |                      | 2.5%  | 140                                                     | 190                      | 74      | 14,000 (1,470) <sup>vap</sup>  | 42,000              | 24,000 (1,470) <sup>vap</sup>  |
|                                                    |                      | 6%    | 320                                                     | 450                      | 170     | 31,000 (3,460) <sup>vap</sup>  | 43,000              | 32,000 (3,460) <sup>vap</sup>  |
|                                                    | p-xylene             | 1%    | 56                                                      | 79                       | 29      | 5,900 (576) <sup>sol</sup>     | 41,000              | 17,000 (576) <sup>sol</sup>    |
|                                                    |                      | 2.5%  | 130                                                     | 180                      | 69      | 14,000 (1,350) <sup>sol</sup>  | 42,000              | 23,000 (1,350) <sup>sol</sup>  |
|                                                    |                      | 6%    | 310                                                     | 430                      | 160     | 30,000 (3,170) <sup>sol</sup>  | 43,000              | 31,000 (3,170) <sup>sol</sup>  |

### NOTES

<sup>sol</sup> / <sup>vap</sup> = solubility / vapour limit (potentially use if free product identified, although highly conservative).

*f* = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

| All GAC are based on sandy loam soils with a pH 7. |                       |      | LQM Generic Assessment Criteria (mg/kg) Dry weight soil |                              |                  |                                         |                     |                                          |
|----------------------------------------------------|-----------------------|------|---------------------------------------------------------|------------------------------|------------------|-----------------------------------------|---------------------|------------------------------------------|
| Contaminant                                        |                       | SOM  | Res +                                                   | Res -                        | Allot.           | Comm.                                   | POS <sub>resi</sub> | POS <sub>park</sub>                      |
| Polycyclic Aromatic Hydrocarbons (PAHs)            | Acenaphthene          | 1%   | 210                                                     | 3,000 (57.1) <sup>sol</sup>  | 34               | 84,000 (57.0) <sup>sol</sup>            | 15,000              | 29,000                                   |
|                                                    |                       | 2.5% | 510                                                     | 4,700 (141) <sup>sol</sup>   | 85               | 97,000 (141) <sup>sol</sup>             | 15,000              | 30,000                                   |
|                                                    |                       | 6%   | 1,100                                                   | 6,000 (336) <sup>sol</sup>   | 200              | 100,000                                 | 15,000              | 30,000                                   |
|                                                    | Acenaphthylene        | 1%   | 170                                                     | 2,900 (86.1) <sup>sol</sup>  | 28               | 83,000 (86.1) <sup>sol</sup>            | 15,000              | 29,000                                   |
|                                                    |                       | 2.5% | 420                                                     | 4,600 (212) <sup>sol</sup>   | 69               | 97,000 (212) <sup>sol</sup>             | 15,000              | 30,000                                   |
|                                                    |                       | 6%   | 920                                                     | 6,000 (506) <sup>sol</sup>   | 160              | 100,000                                 | 15,000              | 30,000                                   |
|                                                    | Anthracene            | 1%   | 2,400                                                   | 31,000 (1.17) <sup>vap</sup> | 380              | 520,000                                 | 74,000              | 150,000                                  |
|                                                    |                       | 2.5% | 5,400                                                   | 35,000                       | 950              | 540,000                                 | 74,000              | 150,000                                  |
|                                                    |                       | 6%   | 11,000                                                  | 37,000                       | 2,200            | 540,000                                 | 74,000              | 150,000                                  |
|                                                    | Benz(a)anthracene     | 1%   | 7.2                                                     | 11                           | 2.9              | 170                                     | 29                  | 49                                       |
|                                                    |                       | 2.5% | 11                                                      | 14                           | 6.5              | 170                                     | 29                  | 56                                       |
|                                                    |                       | 6%   | 13                                                      | 15                           | 13               | 180                                     | 29                  | 62                                       |
|                                                    | Benzo(a)pyrene (only) | 1%   | 2.2                                                     | 3.2                          | 0.97             | 35                                      | 5.7                 | 11                                       |
|                                                    |                       | 2.5% | 2.7                                                     | 3.2                          | 2.0              | 35                                      | 5.7                 | 12                                       |
|                                                    |                       | 6%   | 3.0                                                     | 3.2                          | 3.5              | 36                                      | 5.7                 | 13                                       |
|                                                    | Benzo(b)fluoranthene  | 1%   | 2.6                                                     | 3.9                          | 0.99             | 44                                      | 7.1                 | 13                                       |
|                                                    |                       | 2.5% | 3.3                                                     | 4.0                          | 2.1              | 44                                      | 7.2                 | 15                                       |
|                                                    |                       | 6%   | 3.7                                                     | 4.0                          | 3.9              | 45                                      | 7.2                 | 16                                       |
|                                                    | Benzo(ghi)perylene    | 1%   | 320                                                     | 360                          | 290              | 3,900                                   | 640                 | 1,400                                    |
|                                                    |                       | 2.5% | 340                                                     | 360                          | 470              | 4,000                                   | 640                 | 1,500                                    |
|                                                    |                       | 6%   | 350                                                     | 360                          | 640              | 4,000                                   | 640                 | 1,600                                    |
|                                                    | Benzo(k)fluoranthene  | 1%   | 77                                                      | 110                          | 37               | 1,200                                   | 190                 | 370                                      |
|                                                    |                       | 2.5% | 93                                                      | 110                          | 75               | 1,200                                   | 190                 | 410                                      |
|                                                    |                       | 6%   | 100                                                     | 110                          | 130              | 1,200                                   | 190                 | 440                                      |
|                                                    | Chrysene              | 1%   | 15                                                      | 30                           | 4.1              | 350                                     | 57                  | 93                                       |
|                                                    |                       | 2.5% | 22                                                      | 31                           | 9.4              | 350                                     | 57                  | 110                                      |
|                                                    |                       | 6%   | 27                                                      | 32                           | 19               | 350                                     | 57                  | 120                                      |
|                                                    | Dibenzo(ah)anthracene | 1%   | 0.24                                                    | 0.31                         | 0.14             | 3.5                                     | 0.57                | 1.1                                      |
|                                                    |                       | 2.5% | 0.28                                                    | 0.32                         | 0.27             | 3.6                                     | 0.58                | 1.3                                      |
|                                                    |                       | 6%   | 0.3                                                     | 0.32                         | 0.43             | 3.6                                     | 0.58                | 1.4                                      |
|                                                    | Fluoranthene          | 1%   | 280                                                     | 1,500                        | 52               | 23,000                                  | 3,100               | 6,300                                    |
|                                                    |                       | 2.5% | 560                                                     | 1,600                        | 130              | 23,000                                  | 3,100               | 6,300                                    |
|                                                    |                       | 6%   | 890                                                     | 1,600                        | 290              | 23,000                                  | 3,100               | 6,400                                    |
|                                                    | Fluorene              | 1%   | 170                                                     | 2,800 (36.0) <sup>sol</sup>  | 27               | 63,000 (30.9) <sup>sol</sup>            | 9,900               | 20,000                                   |
|                                                    |                       | 2.5% | 400                                                     | 3,800 (76.5) <sup>sol</sup>  | 67               | 68,000                                  | 9,900               | 20,000                                   |
|                                                    |                       | 6%   | 860                                                     | 4,500 (183) <sup>sol</sup>   | 160              | 71,000                                  | 9,900               | 20,000                                   |
|                                                    | Indeno(123-cd)pyrene  | 1%   | 27                                                      | 45                           | 9.5              | 500                                     | 82                  | 150                                      |
|                                                    |                       | 2.5% | 36                                                      | 46                           | 21               | 510                                     | 82                  | 170                                      |
|                                                    |                       | 6%   | 41                                                      | 46                           | 39               | 510                                     | 82                  | 180                                      |
|                                                    | Naphthalene           | 1%   | 2.3 <sup>f</sup>                                        | 2.3 <sup>f</sup>             | 4.1 <sup>f</sup> | 190 <sup>f</sup> (76.4) <sup>sol</sup>  | 4,900 <sup>f</sup>  | 1,200 <sup>f</sup> (76.4) <sup>sol</sup> |
|                                                    |                       | 2.5% | 5.6 <sup>f</sup>                                        | 5.6 <sup>f</sup>             | 10 <sup>f</sup>  | 460 <sup>f</sup> (183) <sup>sol</sup>   | 4,900 <sup>f</sup>  | 1,900 <sup>f</sup> (183) <sup>sol</sup>  |
|                                                    |                       | 6%   | 13 <sup>f</sup>                                         | 13 <sup>f</sup>              | 24 <sup>f</sup>  | 1,100 <sup>f</sup> (432) <sup>sol</sup> | 4,900 <sup>f</sup>  | 3,000                                    |
|                                                    | Phenanthrene          | 1%   | 95                                                      | 1,300 (36.0) <sup>sol</sup>  | 15               | 22,000                                  | 3,100               | 6,200                                    |
|                                                    |                       | 2.5% | 220                                                     | 1,500                        | 38               | 22,000                                  | 3,100               | 6,200                                    |
|                                                    |                       | 6%   | 440                                                     | 1,500                        | 90               | 22,000                                  | 3,100               | 6,300                                    |
|                                                    | Pyrene                | 1%   | 620                                                     | 3,700                        | 110              | 54,000                                  | 7,400               | 15,000                                   |
|                                                    |                       | 2.5% | 1,200                                                   | 3,800                        | 270              | 54,000                                  | 7,400               | 15,000                                   |
|                                                    |                       | 6%   | 2,000                                                   | 3,800                        | 620              | 54,000                                  | 7,400               | 15,000                                   |
| Coal Tar<br>(B(a)P as surrogate marker)            | 1%                    | 0.79 | 1.2                                                     | 0.32                         | 15               | 2.2                                     | 4.4                 |                                          |
|                                                    | 2.5%                  | 0.98 | 1.2                                                     | 0.67                         | 15               | 2.2                                     | 4.7                 |                                          |
|                                                    | 6%                    | 1.1  | 1.2                                                     | 1.2                          | 15               | 2.2                                     | 4.8                 |                                          |

#### NOTES

<sup>Sol / vap</sup> = solubility / vapour limit (potentially use if free product identified, although highly conservative).

<sup>f</sup> = naphthalene is based on comparison of inhalation exposure with TDI<sub>Inhal</sub> for localised effect.

All GAC are based on sandy loam soils with a pH 7.

### LQM Generic Assessment Criteria (mg/kg) Dry weight soil

| Contaminant                     | SOM  | Res +                           | Res -                           | Allot.               | Comm.                          | POS <sub>resi</sub>         | POS <sub>park</sub>            |
|---------------------------------|------|---------------------------------|---------------------------------|----------------------|--------------------------------|-----------------------------|--------------------------------|
| <b>Aliphatic</b>                |      |                                 |                                 |                      |                                |                             |                                |
| EC 5-6                          | 1%   | 42                              | 42                              | 730                  | 3,200 (304) <sup>sol</sup>     | 570,000(304) <sup>sol</sup> | 95,000 (304) <sup>sol</sup>    |
| EC>6-8                          | 1%   | 100                             | 100                             | 2,300                | 7,800 (144) <sup>sol</sup>     | 600,000                     | 150,000 (144) <sup>sol</sup>   |
| EC>8-10                         | 1%   | 27                              | 27                              | 320                  | 2,000 (78) <sup>sol</sup>      | 13,000                      | 14,000 (78) <sup>vap</sup>     |
| EC>10-12                        | 1%   | 130 (48) <sup>vap</sup>         | 130 (48) <sup>vap</sup>         | 2,200                | 9,700 (48) <sup>sol</sup>      | 13,000                      | 21,000 (48) <sup>vap</sup>     |
| EC>12-16                        | 1%   | 1,100 (24) <sup>sol</sup>       | 1,100 (24) <sup>sol</sup>       | 11,000               | 59,000 (24) <sup>sol</sup>     | 13,000                      | 25,000 (24) <sup>sol</sup>     |
| EC>16-35                        | 1%   | 65,000 (8.48) <sup>f, sol</sup> | 65,000 (8.48) <sup>f, sol</sup> | 260,000 <sup>f</sup> | 160,000 <sup>f</sup>           | 250,000 <sup>f</sup>        | 450,000 <sup>f</sup>           |
| EC>35-44                        | 1%   | 65,000 (8.48) <sup>f, sol</sup> | 65,000 (8.48) <sup>f, sol</sup> | 260,000 <sup>f</sup> | 160,000 <sup>f</sup>           | 250,000 <sup>f</sup>        | 450,000 <sup>f</sup>           |
| <b>Aliphatic</b>                |      |                                 |                                 |                      |                                |                             |                                |
| EC 5-6                          | 2.5% | 78                              | 78                              | 1,700                | 5,900 (558) <sup>sol</sup>     | 590,000                     | 130,000 (558) <sup>sol</sup>   |
| EC>6-8                          | 2.5% | 230                             | 230                             | 5,600                | 17,000 (322) <sup>sol</sup>    | 610,000                     | 220,000 (322) <sup>sol</sup>   |
| EC>8-10                         | 2.5% | 65                              | 65                              | 770                  | 4,800 (190) <sup>vap</sup>     | 13,000                      | 18,000 (190) <sup>vap</sup>    |
| EC>10-12                        | 2.5% | 330 (118) <sup>vap</sup>        | 330 (118) <sup>vap</sup>        | 4,400                | 23,000 (118) <sup>vap</sup>    | 13,000                      | 23,000 (118) <sup>vap</sup>    |
| EC>12-16                        | 2.5% | 2,400 (59) <sup>sol</sup>       | 2,400 (59) <sup>sol</sup>       | 13,000               | 82,000 (59) <sup>sol</sup>     | 13,000                      | 25,000 (59) <sup>sol</sup>     |
| EC>16-35                        | 2.5% | 92,000 (21) <sup>f, sol</sup>   | 92,000 (21) <sup>f, sol</sup>   | 270,000 <sup>f</sup> | 1,700,000 <sup>f</sup>         | 250,000 <sup>f</sup>        | 480,000 <sup>f</sup>           |
| EC>35-44                        | 2.5% | 92,000 (21) <sup>f, sol</sup>   | 92,000 (21) <sup>f, sol</sup>   | 270,000 <sup>f</sup> | 1,700,000 <sup>f</sup>         | 250,000 <sup>f</sup>        | 480,000 <sup>f</sup>           |
| <b>Aliphatic</b>                |      |                                 |                                 |                      |                                |                             |                                |
| EC 5-6                          | 6%   | 160                             | 160                             | 3,900                | 12,000 (1,150) <sup>sol</sup>  | 600,000                     | 180,000 (1,150) <sup>sol</sup> |
| EC>6-8                          | 6%   | 530                             | 530                             | 13,000               | 40,000 (736) <sup>sol</sup>    | 620,000                     | 320,000 (736) <sup>sol</sup>   |
| EC>8-10                         | 6%   | 150                             | 150                             | 1,700                | 11,000 (451) <sup>vap</sup>    | 13,000                      | 21,000 (451) <sup>vap</sup>    |
| EC>10-12                        | 6%   | 760 (283) <sup>vap</sup>        | 760 (283) <sup>vap</sup>        | 7,300                | 47,000 (283) <sup>vap</sup>    | 13,000                      | 24,000 (283) <sup>vap</sup>    |
| EC>12-16                        | 6%   | 4,300 (142) <sup>sol</sup>      | 4,400 (142) <sup>sol</sup>      | 13,000               | 90,000 (142) <sup>sol</sup>    | 13,000                      | 26,000 (142) <sup>sol</sup>    |
| EC>16-35                        | 6%   | 110,000 <sup>f</sup>            | 110,000 <sup>f</sup>            | 270,000 <sup>f</sup> | 1,800,000 <sup>f</sup>         | 250,000 <sup>f</sup>        | 490,000 <sup>f</sup>           |
| EC>35-44                        | 6%   | 110,000 <sup>f</sup>            | 110,000 <sup>f</sup>            | 270,000 <sup>f</sup> | 1,800,000 <sup>f</sup>         | 250,000 <sup>f</sup>        | 490,000 <sup>f</sup>           |
| <b>Aromatic</b>                 |      |                                 |                                 |                      |                                |                             |                                |
| EC5-7(benzene as non-threshold) | 1%   | 70                              | 370                             | 13                   | 26,000 (1,220) <sup>sol</sup>  | 56,000                      | 76,000 (1,220) <sup>sol</sup>  |
| EC>7-8(toluene)                 | 1%   | 130                             | 860                             | 22                   | 56,000 (869) <sup>vap</sup>    | 56,000                      | 87,000 (869) <sup>vap</sup>    |
| EC>8-10                         | 1%   | 34                              | 47                              | 8.6                  | 3,500 (613) <sup>vap</sup>     | 5,000                       | 7,200 (613) <sup>vap</sup>     |
| EC>10-12                        | 1%   | 74                              | 250                             | 13                   | 16,000 (364) <sup>sol</sup>    | 5,000                       | 9,200 (364) <sup>sol</sup>     |
| EC>12-16                        | 1%   | 140                             | 1,800                           | 23                   | 36,000 (169) <sup>sol</sup>    | 5,100                       | 10,000                         |
| EC>16-21                        | 1%   | 260 <sup>f</sup>                | 1,900 <sup>f</sup>              | 46 <sup>f</sup>      | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,600 <sup>f</sup>             |
| EC>21-35                        | 1%   | 1,100 <sup>f</sup>              | 1,900 <sup>f</sup>              | 370 <sup>f</sup>     | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,800 <sup>f</sup>             |
| EC>35-44                        | 1%   | 1,100 <sup>f</sup>              | 1,900 <sup>f</sup>              | 370 <sup>f</sup>     | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,800 <sup>f</sup>             |
| <b>Aromatic</b>                 |      |                                 |                                 |                      |                                |                             |                                |
| EC5-7(benzene as non-threshold) | 2.5% | 140                             | 690                             | 27                   | 46,000 (2,260) <sup>sol</sup>  | 56,000                      | 84,000 (2,260) <sup>sol</sup>  |
| EC>7-8(toluene)                 | 2.5% | 290                             | 1,800                           | 51                   | 110,000 (1,920) <sup>sol</sup> | 56,000                      | 95,000 (1,920) <sup>sol</sup>  |
| EC>8-10                         | 2.5% | 83                              | 110                             | 21                   | 8,100 (1,500) <sup>vap</sup>   | 5,000                       | 8,500 (1,500) <sup>vap</sup>   |
| EC>10-12                        | 2.5% | 180                             | 590                             | 31                   | 28,000 (899) <sup>sol</sup>    | 5,000                       | 9,700 (899) <sup>sol</sup>     |
| EC>12-16                        | 2.5% | 330                             | 2,300 (419) <sup>sol</sup>      | 57                   | 37,000                         | 5,100                       | 10,000                         |
| EC>16-21                        | 2.5% | 540 <sup>f</sup>                | 1,900 <sup>f</sup>              | 110 <sup>f</sup>     | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,700 <sup>f</sup>             |
| EC>21-35                        | 2.5% | 1,500 <sup>f</sup>              | 1,900 <sup>f</sup>              | 820 <sup>f</sup>     | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,800 <sup>f</sup>             |
| EC>35-44                        | 2.5% | 1,500 <sup>f</sup>              | 1,900 <sup>f</sup>              | 820 <sup>f</sup>     | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,800 <sup>f</sup>             |
| <b>Aromatic</b>                 |      |                                 |                                 |                      |                                |                             |                                |
| EC5-7(benzene as non-threshold) | 6%   | 300                             | 1,400                           | 57                   | 86,000 (4,710) <sup>sol</sup>  | 56,000                      | 92,000 (4,710) <sup>sol</sup>  |
| EC>7-8(toluene)                 | 6%   | 660                             | 3,900                           | 120                  | 180,000 (4,360) <sup>vap</sup> | 56,000                      | 100,000 (4,360) <sup>vap</sup> |
| EC>8-10                         | 6%   | 190                             | 270                             | 51                   | 17,000 (3,580) <sup>vap</sup>  | 5,000                       | 9,300 (3,580) <sup>vap</sup>   |
| EC>10-12                        | 6%   | 380                             | 1,200                           | 74                   | 34,000 (2,150) <sup>sol</sup>  | 5,000                       | 10,000                         |
| EC>12-16                        | 6%   | 660                             | 2,500                           | 130                  | 38,000                         | 5,100                       | 10,000                         |
| EC>16-21                        | 6%   | 930 <sup>f</sup>                | 1,900 <sup>f</sup>              | 260 <sup>f</sup>     | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,800 <sup>f</sup>             |
| EC>21-35                        | 6%   | 1,700 <sup>f</sup>              | 1,900 <sup>f</sup>              | 1,600 <sup>f</sup>   | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,900 <sup>f</sup>             |
| EC>35-44                        | 6%   | 1,700 <sup>f</sup>              | 1,900 <sup>f</sup>              | 1,600 <sup>f</sup>   | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,900 <sup>f</sup>             |
| Aliphatic +Aromatic >EC44       | 1%   | 1,600 <sup>f</sup>              | 1,900 <sup>f</sup>              | 1,200 <sup>f</sup>   | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,800 <sup>f</sup>             |
|                                 | 2.5% | 1,800 <sup>f</sup>              | 1,900 <sup>f</sup>              | 2,100 <sup>f</sup>   | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,800 <sup>f</sup>             |
|                                 | 6%   | 1,900 <sup>f</sup>              | 1,900 <sup>f</sup>              | 3,000 <sup>f</sup>   | 28,000 <sup>f</sup>            | 3,800 <sup>f</sup>          | 7,900 <sup>f</sup>             |

#### NOTES

Sol / vap = solubility / vapour limit (potentially use if free product identified, although highly conservative).

f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

| All GAC are based on sandy loam soils with a pH 7. |                                                |      | LQM Generic Assessment Criteria (mg/kg) Dry weight soil |                              |         |                                |                     |                                |
|----------------------------------------------------|------------------------------------------------|------|---------------------------------------------------------|------------------------------|---------|--------------------------------|---------------------|--------------------------------|
| Contaminant                                        |                                                | SOM  | Res +                                                   | Res -                        | Allot.  | Comm.                          | POS <sub>resi</sub> | POS <sub>park</sub>            |
| Chloalkanes and Alkenes & Explosives               | 1,2 Dichloroethane (DCA)                       | 1%   | 7.1E-03                                                 | 9.2E-03                      | 4.6E-03 | 0.67                           | 29                  | 21                             |
|                                                    |                                                | 2.5% | 1.1E-02                                                 | 1.3E-02                      | 8.3E-03 | 0.97                           | 29                  | 24                             |
|                                                    |                                                | 6%   | 1.9E-02                                                 | 2.3E-02                      | 1.6E-02 | 1.7                            | 29                  | 28                             |
|                                                    | 1,1,1 Trichloroethane (TCA)                    | 1%   | 8.8                                                     | 9.0                          | 48      | 660                            | 140,000             | 57,000 (1,425) <sup>vap</sup>  |
|                                                    |                                                | 2.5% | 18                                                      | 18                           | 110     | 1,300                          | 140,000             | 76,000 (2,915) <sup>vap</sup>  |
|                                                    |                                                | 6%   | 39                                                      | 40                           | 240     | 3,000                          | 140,000             | 100,000 (6,392) <sup>vap</sup> |
|                                                    | 1,1,2,2-Tetrachloroethanes (PCA)               | 1%   | 1.6                                                     | 3.9                          | 0.41    | 270                            | 1,400               | 1,800                          |
|                                                    |                                                | 2.5% | 3.4                                                     | 8.0                          | 0.89    | 550                            | 1,400               | 2,100                          |
|                                                    |                                                | 6%   | 7.5                                                     | 17                           | 2.0     | 1,100                          | 1,400               | 2,300                          |
|                                                    | 1,1,1,2-Tetrachloroethanes (PCA)               | 1%   | 1.2                                                     | 1.5                          | 0.79    | 110                            | 1,400               | 1,500                          |
|                                                    |                                                | 2.5% | 2.8                                                     | 3.5                          | 1.9     | 250                            | 1,400               | 1,800                          |
|                                                    |                                                | 6%   | 6.4                                                     | 8.2                          | 4.4     | 560                            | 1,400               | 2,100                          |
|                                                    | Tetrachloroethene (PCE)                        | 1%   | 0.18                                                    | 0.18                         | 0.65    | 19                             | 1,400               | 810 (424) <sup>sol</sup>       |
|                                                    |                                                | 2.5% | 0.39                                                    | 0.40                         | 1.5     | 42                             | 1,400               | 1,100 (951) <sup>sol</sup>     |
|                                                    |                                                | 6%   | 0.90                                                    | 0.92                         | 3.6     | 95                             | 1,400               | 1,500                          |
|                                                    | Tetrachloromethane (carbon tetrachloride)      | 1%   | 2.6E-02                                                 | 2.6E-02                      | 0.45    | 2.9                            | 890                 | 190                            |
|                                                    |                                                | 2.5% | 5.6E-02                                                 | 5.6E-02                      | 1.0     | 6.3                            | 920                 | 270                            |
|                                                    |                                                | 6%   | 0.13                                                    | 0.13                         | 2.4     | 14                             | 950                 | 400                            |
|                                                    | Trichloroethene (TCE)                          | 1%   | 1.6E-02                                                 | 1.7E-02                      | 4.1E-02 | 1.2                            | 120                 | 70                             |
|                                                    |                                                | 2.5% | 3.4E-02                                                 | 3.6E-02                      | 9.1E-02 | 2.6                            | 120                 | 91                             |
|                                                    |                                                | 6%   | 7.5E-02                                                 | 8.0E-02                      | 0.21    | 5.7                            | 120                 | 120                            |
|                                                    | Trichloromethane (chloroform)                  | 1%   | 0.91                                                    | 1.2                          | 0.42    | 99                             | 2,500               | 2,600                          |
|                                                    |                                                | 2.5% | 1.7                                                     | 2.1                          | 0.83    | 170                            | 2,500               | 2,800                          |
|                                                    |                                                | 6%   | 3.4                                                     | 4.2                          | 1.7     | 350                            | 2,500               | 3,100                          |
|                                                    | Chloroethene (vinyl chloride)                  | 1%   | 6.4E-04                                                 | 7.7E-04                      | 5.5E-04 | 5.9E-02                        | 3.5                 | 4.8                            |
|                                                    |                                                | 2.5% | 8.7E-04                                                 | 1.0E-03                      | 1.0E-03 | 7.7E-02                        | 3.5                 | 5.0                            |
|                                                    |                                                | 6%   | 1.4E-03                                                 | 1.5E-03                      | 1.8E-03 | 0.12                           | 3.5                 | 5.4                            |
|                                                    | 2,4,6-Trinitrotoluene (TNT)                    | 1%   | 1.6                                                     | 65                           | 0.24    | 1,000                          | 130                 | 260                            |
|                                                    |                                                | 2.5% | 3.7                                                     | 66                           | 0.58    | 1,000                          | 130                 | 270                            |
|                                                    |                                                | 6%   | 8.1                                                     | 66                           | 1.4     | 1,000                          | 130                 | 270                            |
|                                                    | RDX                                            | 1%   | 120                                                     | 13,000                       | 17      | 210,000                        | 26,000              | 49,000 (18.7) <sup>sol</sup>   |
|                                                    |                                                | 2.5% | 250                                                     | 13,000                       | 38      | 210,000                        | 26,000              | 51,000                         |
|                                                    |                                                | 6%   | 540                                                     | 13,000                       | 85      | 210,000                        | 27,000              | 53,000                         |
|                                                    | HMX                                            | 1%   | 5.7                                                     | 6,700                        | 0.86    | 110,000                        | 13,000              | 23,000 (0.35) <sup>vap</sup>   |
|                                                    |                                                | 2.5% | 13                                                      | 6,700                        | 1.9     | 110,000                        | 13,000              | 23,000 (0.39) <sup>vap</sup>   |
|                                                    |                                                | 6%   | 26                                                      | 6,700                        | 3.9     | 110,000                        | 13,000              | 24,000 (0.48) <sup>vap</sup>   |
| Pesticides                                         | Aldrin                                         | 1%   | 5.7                                                     | 7.3                          | 3.2     | 170                            | 18                  | 30                             |
|                                                    |                                                | 2.5% | 6.6                                                     | 7.4                          | 6.1     | 170                            | 18                  | 31                             |
|                                                    |                                                | 6%   | 7.1                                                     | 7.5                          | 9.8     | 170                            | 18                  | 31                             |
|                                                    | Dieldrin                                       | 1%   | 0.97                                                    | 7.0                          | 0.17    | 170                            | 18                  | 30                             |
|                                                    |                                                | 2.5% | 2.0                                                     | 7.3                          | 0.41    | 170                            | 18                  | 30                             |
|                                                    |                                                | 6%   | 3.5                                                     | 7.4                          | 0.96    | 170                            | 18                  | 31                             |
|                                                    | Atrazine                                       | 1%   | 3.3                                                     | 610                          | 0.5     | 9,300                          | 1,200               | 2,300                          |
|                                                    |                                                | 2.5% | 7.8                                                     | 620                          | 1.2     | 9,400                          | 1,200               | 2,400                          |
|                                                    |                                                | 6%   | 17.4                                                    | 620                          | 2.7     | 9,400                          | 1,200               | 2,400                          |
|                                                    | Dichlorvos                                     | 1%   | 3.2E-02                                                 | 6.4                          | 4.9E-03 | 140                            | 16                  | 26                             |
|                                                    |                                                | 2.5% | 6.6E-02                                                 | 6.5                          | 1.0E-02 | 140                            | 16                  | 26                             |
|                                                    |                                                | 6%   | 0.14                                                    | 6.6                          | 2.2E-02 | 140                            | 16                  | 27                             |
|                                                    | Endosulfanns (2 isomers)                       | 1%   | 7.4                                                     | 160 (3.0E-03) <sup>vap</sup> | 1.2     | 5,600 (3.0E-03) <sup>vap</sup> | 1,200               | 2,300                          |
|                                                    |                                                | 2.5% | 18                                                      | 280 (7.0E-03) <sup>vap</sup> | 2.9     | 7,400 (7.0E-03) <sup>vap</sup> | 1,200               | 2,400                          |
|                                                    |                                                | 6%   | 41                                                      | 410 (1.6E-02) <sup>vap</sup> | 6.8     | 8,400 (1.6E-02) <sup>vap</sup> | 1,200               | 2,500                          |
|                                                    | Hexachlorocyclohexane (3 isomers), inc Lindane | 1%   | 8.5E-02                                                 | 3.7                          | 1.3E-02 | 65                             | 8.1                 | 15                             |
|                                                    |                                                | 2.5% | 0.2                                                     | 3.8                          | 3.2E-02 | 65                             | 8.1                 | 15                             |
|                                                    |                                                | 6%   | 0.46                                                    | 3.8                          | 7.7E-02 | 65                             | 8.1                 | 16                             |

#### NOTES

Sol / vap = solubility / vapour limit (potentially use if free product identified, although highly conservative).

All GAC are based on  
sandy loam soils with a pH  
7.

**LQM Generic Assessment Criteria (mg/kg) Dry weight soil**

| Contaminant    |                                    | SOM  | Res +                     | Res -                     | Allot.            | Comm.                         | POS <sub>resi</sub>           | POS <sub>park</sub>           |
|----------------|------------------------------------|------|---------------------------|---------------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|
| Chlorobenzenes | Chlorobenzene                      | 1%   | 0.46                      | 0.46                      | 5.9               | 56                            | 11,000                        | 1,300 (675) <sup>sol</sup>    |
|                |                                    | 2.5% | 1.0                       | 1.0                       | 14                | 130                           | 13,000                        | 2,000 (1,520) <sup>sol</sup>  |
|                |                                    | 6%   | 2.4                       | 2.4                       | 32                | 290                           | 14,000                        | 2,900                         |
|                | Dichlorobenzenes<br>(3 isomers)    | 1%   | 23                        | 24                        | 94                | 2,000 (571) <sup>sol</sup>    | 90,000                        | 24,000 (571) <sup>sol</sup>   |
|                |                                    | 2.5% | 55                        | 57                        | 230               | 4,800 (1,370) <sup>sol</sup>  | 95,000                        | 36,000 (1,370) <sup>sol</sup> |
|                |                                    | 6%   | 130                       | 130                       | 540               | 11,000 (3,240) <sup>sol</sup> | 98,000                        | 51,000 (3,270) <sup>sol</sup> |
|                | Trichlorobenzenes<br>(3 isomers)   | 1%   | 2.6                       | 2.6                       | 55                | 220                           | 15,000                        | 1,700 (318) <sup>vap</sup>    |
|                |                                    | 2.5% | 6.4                       | 6.4                       | 140               | 530                           | 17,000                        | 2,600 (786) <sup>vap</sup>    |
|                |                                    | 6%   | 15                        | 15                        | 320               | 1,300                         | 19,000                        | 4,000 (1,880) <sup>vap</sup>  |
|                | Tetrachlorobenzenes<br>(3 isomers) | 1%   | 0.66                      | 0.75                      | 0.38              | 49 (39.4) <sup>vap</sup>      | 78                            | 110 (39) <sup>vap</sup>       |
|                |                                    | 2.5% | 1.6                       | 1.9                       | 0.90              | 120 (98.1) <sup>vap</sup>     | 79                            | 120                           |
|                |                                    | 6%   | 3.7                       | 4.3                       | 2.2               | 240 (235) <sup>vap</sup>      | 79                            | 130                           |
|                | Pentachlorobenzene                 | 1%   | 5.8                       | 19                        | 1.2               | 640 (43.0) <sup>sol</sup>     | 100                           | 190                           |
|                |                                    | 2.5% | 12                        | 30                        | 3.1               | 770 (107) <sup>sol</sup>      | 100                           | 190                           |
|                |                                    | 6%   | 22                        | 38                        | 7.0               | 830                           | 100                           | 190                           |
|                | Hexachlorobenzene                  | 1%   | 1.8 (0.20) <sup>vap</sup> | 4.1 (0.20) <sup>vap</sup> | 0.47              | 110 (0.20) <sup>vap</sup>     | 16                            | 30                            |
|                |                                    | 2.5% | 3.3 (0.50) <sup>vap</sup> | 5.7 (0.50) <sup>vap</sup> | 1.1               | 120                           | 16                            | 30                            |
|                |                                    | 6%   | 4.9                       | 6.7 (1.2) <sup>vap</sup>  | 2.5               | 120                           | 16                            | 30                            |
| Chlorophenol   | Chlorophenols<br>(4 congeners)     | 1%   | 0.87 <sup>g</sup>         | 94                        | 0.13 <sup>g</sup> | 3,500                         | 620                           | 1,100                         |
|                |                                    | 2.5% | 2.0                       | 150                       | 0.30              | 4,000                         | 620                           | 1,100                         |
|                |                                    | 6%   | 4.5                       | 210                       | 0.70              | 4,300                         | 620                           | 1,100                         |
|                | Pentachlorophenol                  | 1%   | 0.22                      | 27 (16.4) <sup>vap</sup>  | 3.0E-02           | 400                           | 60                            | 110                           |
|                |                                    | 2.5% | 0.52                      | 29                        | 8.0E-02           | 400                           | 60                            | 120                           |
|                |                                    | 6%   | 1.2                       | 31                        | 0.19              | 400                           | 60                            | 120                           |
| Others         | Carbon Disulphide                  | 1%   | 0.14                      | 0.14                      | 4.8               | 11                            | 11,000                        | 1,300                         |
|                |                                    | 2.5% | 0.29                      | 0.29                      | 10                | 22                            | 11,000                        | 1,900                         |
|                |                                    | 6%   | 0.62                      | 0.62                      | 23                | 47                            | 11,000                        | 2,700                         |
|                | Hexachlorobutadiene                | 1%   | 0.29                      | 0.32                      | 0.25              | 31                            | 25                            | 48                            |
|                |                                    | 2.5% | 0.7                       | 0.78                      | 0.61              | 66                            | 25                            | 50                            |
|                |                                    | 6%   | 1.6                       | 1.8                       | 1.4               | 120                           | 25                            | 51                            |
|                | Phenol                             | 1%   | 280                       | 750                       | 66                | 760 <sup>dir</sup> (31,000)   | 760 <sup>dir</sup> (11,000)   | 760 <sup>dir</sup> (8,600)    |
|                |                                    | 2.5% | 550                       | 1,300                     | 140               | 1,500 <sup>dir</sup> (35,000) | 1,500 <sup>dir</sup> (11,000) | 1,500 <sup>dir</sup> (9,700)  |
|                |                                    | 6%   | 1,100                     | 2,300                     | 280               | 3,200 <sup>dir</sup> (37,000) | 3,200 <sup>dir</sup> (11,000) | 3,200 <sup>dir</sup> (11,000) |

**NOTES**

<sup>Sol / vap</sup> = solubility / vapour limit (potentially use if free product identified, although highly conservative).

<sup>dir</sup> = S4uls based on threshold protective of direct skin contact with phenol (brackets long term exposure for illustration purposes).

<sup>g</sup> = derived based on 2,3,4,6-tetrachlorophenol.

## **APPENDIX D**

### **DISPOSAL TICKETS - EXAMPLES**

## Panos Milesi

---

**From:** Kevin Moran <kevin.moran@chartrange.com>  
**Sent:** 09 August 2022 08:42  
**To:** Panos Milesi  
**Subject:** RE: Muck Away Report  
**Attachments:** 21-12009-1 wac.pdf; Noma Marketing suite Enviro log.docx; Copy of NOMA LOG.xlsx

---

### [CAUTION: External Email]

---

Hi Panos

Find attached testing results of the material we removed from site in the marketing suite remediation works, along with a marked up drawing of where this material came from. In total 250m3 of material was removed during the marketing suite works. I have highlighted on the material log which material was from the car park works.

Kind Regards

Kevin Moran  
Site Engineer

## Chartrange.

Wharf Street | Dukinfield | Cheshire | SK16 4NJ

M: 07539256289 | T: 0161 339 4949 |

E: [kevin.moran@chartrange.com](mailto:kevin.moran@chartrange.com)

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



Wharf Street | Dukinfield | Cheshire | SK16 4NJ

T: 0161 339 4949 | F: 0161 339 4437 | M: 07539 256 289 | E: [kevin.moran@chartrange.com](mailto:kevin.moran@chartrange.com) [www.chartrange.com](http://www.chartrange.com)

**From:** Panos Milesi <p.milesi@bandk.co.uk>  
**Sent:** 04 August 2022 11:23  
**To:** Kevin Moran <kevin.moran@chartrange.com>  
**Subject:** RE: Muck Away Report

Hi Kev,

Could you also have a look at this email attached, they are also after-

- *area of excavation*
- *volumes of material removed*
- *any chemical testing results landfill waste tickets*

Your assistance on this would appreciated

Kind Regards

Panos

**Panos Milesi**  
Site Manager

Tel: 01773 549008 | Mob: 07767606290  
North West Regional Office, 1st Floor, Altitude, Atlas Business Park, Manchester, M22 5PR

Email | Website



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**From:** Panos Milesi <p.milesi@bandk.co.uk>

**Sent:** 03 August 2022 15:46

**To:** kevin.moran@chartrange.com

**Subject:** Muck Away Report

Hi Kev

Can you please send over the muck away report for MS as discussed last week

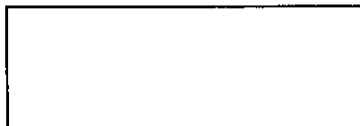
Kind Regards

Panos

**Panos Milesi**  
Site Manager

Tel: 01773 549008 | Mob: 07767606290  
North West Regional Office, 1st Floor, Altitude, Atlas Business Park, Manchester, M22 5PR

Email | Website



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| Delivery Note | Delivery date | From                 | Driver Company | Reg     | Material | Driver        |
|---------------|---------------|----------------------|----------------|---------|----------|---------------|
| 19351         | 18/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNX | MUCK     | TONY BROWN    |
| 19475         | 18/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UGL | SPOIL    | BRIAN LAWTON  |
| 2741          | 18/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 3667          | 23/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 19372         | 23/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNX | SPOIL    | CHRIS VEALE   |
| 2144          | 23/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UAL | SPOIL    | CHRIS FARRELL |
| 3659          | 22/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 3625          | 25/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UGL | SPOIL    | BRIAN LAWTON  |
| 19806         | 25/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UAL | CONCRETE | CHRIS FARRELL |
| 3614          | 23/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UGL | SPOIL    | BRIAN LAWTON  |
| 19368         | 22/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNX | SPOIL    | TONY BROWN    |
| 2137          | 22/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UAL | SPOIL    | CHRIS FARRELL |
| 3619          | 24/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UGL | SPOIL    | BRIAN LAWTON  |
| 3674          | 24/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 3680          | 25/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 19392         | 30/11/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNX | SPOIL    | TONY BROWN    |
| 3648          | 30/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UGL | SPOIL    | BRIAN LAWTON  |
| 19828         | 30/11/2021    | Noma Marketing suite | CHARTRANGE     | PO17UAL | SPOIL    | CHRIS FARRELL |
| 2966          | 01/12/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 18202         | 10/12/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | MUCK     | MATT BOOTH    |
| 18203         | 10/12/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | MUCK     | MATT BOOTH    |
| 18205         | 10/12/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | MUCK     | MATT BOOTH    |
| 2994          | 10/12/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 2995          | 10/12/2021    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | MUCK     | LEE SLINGSBY  |
| 19484         | 10/12/2021    | Noma Marketing suite | CHARTRANGE     | PO17UGL | SPOIL    | BRIAN LAWTON  |
| 18486         | 07/01/2022    | Noma Marketing suite | CHARTRANGE     | PO17UGL | CONCRETE | BRIAN LAWTON  |
| 19993         | 07/01/2022    | Noma Marketing suite | CHARTRANGE     | PO17UAL | TARMAC   | CHRIS FARRELL |
| 18182         | 07/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 18240         | 10/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | SPOIL    | MATT BOOTH    |
| 18241         | 10/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | SPOIL    | MATT BOOTH    |
| 18242         | 10/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | SPOIL    | MATT BOOTH    |
| 18243         | 10/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | SPOIL    | MATT BOOTH    |
| 18244         | 10/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | COBBLES  | MATT BOOTH    |
| 18246         | 10/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | SPOIL    | MATT BOOTH    |
| 19277         | 07/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | TARMAC   | MATT BOOTH    |
| 19278         | 07/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | TARMAC   | MATT BOOTH    |
| 19279         | 07/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | TARMAC   | MATT BOOTH    |
| 19280         | 07/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | TARMAC   | MATT BOOTH    |
| 18188         | 11/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNY | SPOIL    | LEE SLINGSBY  |
| 2854          | 11/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNX | SPOIL    | CHRIS VEALE   |
| 19931         | 20/01/2022    | Noma Marketing suite | CHARTRANGE     | PO17UAL | SPOIL    | CHRIS FARRELL |
| 19934         | 20/01/2022    | Noma Marketing suite | CHARTRANGE     | PO17UAL | SPOIL    | CHRIS FARRELL |
| 19935         | 20/01/2022    | Noma Marketing suite | CHARTRANGE     | PO17UAL | SPOIL    | CHRIS FARRELL |
| 19544         | 20/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNW | SPOIL    | MATT BOOTH    |
| 2875          | 20/01/2022    | Noma Marketing suite | CHARTRANGE     | PJ17VNX | MUCK     | CHRIS VEALE   |

Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.:

Date: 22.11.21 No: 2137

|                                                |                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>B + H</u><br>Site Address: <u>NOMA PROJECT</u>                                          |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>1x8W</u><br>Describe materials being transferred <u>SPOIL</u><br>Quantity |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>C. FARRER</u><br>Vehicle Reg <u>PO17 UAL</u>                                              |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>CHARTRANGE</u><br>Disposal Address <u>TIP</u><br>Licence No.                              |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

|                      |                  |                 |                 |                          |
|----------------------|------------------|-----------------|-----------------|--------------------------|
| MINIMUM HIRE 9 HOURS |                  |                 |                 | No. of<br>Loads<br><br>1 |
| Day<br>Work:         | Hours<br>Worked: | Travel<br>Time: | Total<br>Hours: |                          |

Consignees Signature:

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

Chartrange.

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Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.:

Date: 22/11 No: 3659

|                                                |                                                                                                                        |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>Bowmer Kierklaw</u><br>Site Address: <u>NOMA Plot</u>                                                |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>SPOIL</u><br>Describe materials being transferred <u>SPOIL</u><br>Quantity <u>1x8W</u> |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>Lee</u><br>Vehicle Reg <u>PS17 UN1</u>                                                                 |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>TIP</u><br>Disposal Address<br>Licence No.                                                             |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

|                      |                  |                 |                 |                 |
|----------------------|------------------|-----------------|-----------------|-----------------|
| MINIMUM HIRE 9 HOURS |                  |                 |                 | No. of<br>Loads |
| Day<br>Work:         | Hours<br>Worked: | Travel<br>Time: | Total<br>Hours: |                 |

Consignees Signature:

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

Chartrange.

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Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.:

Date: 22-11-21 No: 19368

|                                                |                                                                                                                        |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>BOWMER KIERKLAW</u><br>Site Address: <u>NOMA PLOT 4</u>                                              |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>SPOIL</u><br>Describe materials being transferred <u>SPOIL</u><br>Quantity <u>1x8W</u> |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>TONY</u><br>Vehicle Reg <u>PS17 UNX</u>                                                                |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>CHARTRANGE</u><br>Disposal Address <u>TIP</u><br>Licence No.                                           |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

|                      |                  |                 |                 |                 |
|----------------------|------------------|-----------------|-----------------|-----------------|
| MINIMUM HIRE 9 HOURS |                  |                 |                 | No. of<br>Loads |
| Day<br>Work:         | Hours<br>Worked: | Travel<br>Time: | Total<br>Hours: |                 |

Consignees Signature:

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_  
Date: 23/11/21 No: 19372

|                                                |                                                                                                                  |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>Bowmer Kirkman</u><br>Site Address: <u>NOMA PROJECT</u>                                        |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? _____<br>Describe materials being transferred <u>Spoil</u><br>Quantity <u>1x8Wk</u> |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>Chris</u><br>Vehicle Reg <u>PS17 UNX</u>                                                         |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>CHARTRANGE</u><br>Disposal Address <u>TIP</u><br>Licence No. _____                               |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

| MINIMUM HIRE 9 HOURS |         |        |        | No. of<br>Loads |
|----------------------|---------|--------|--------|-----------------|
| Day                  | Hours   | Travel | Total  |                 |
| Work:                | Worked: | Time:  | Hours: |                 |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_  
Date: 23.11.21 No: 2144

|                                                |                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>B+K</u><br>Site Address: <u>NOMA PROJECT</u>                                                  |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>1x8W</u><br>Describe materials being transferred <u>SPOIL</u><br>Quantity _____ |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>Chris</u><br>Vehicle Reg <u>PS17 UNX</u>                                                        |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>CHARTRANGE</u><br>Disposal Address <u>TIP</u><br>Licence No. _____                              |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

| MINIMUM HIRE 9 HOURS |         |        |        | No. of<br>Loads |
|----------------------|---------|--------|--------|-----------------|
| Day                  | Hours   | Travel | Total  |                 |
| Work:                | Worked: | Time:  | Hours: |                 |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_  
Date: 23/11/21 No: 3614

|                                                |                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>Bowmer</u><br>Site Address: <u>NOMA PROJECT</u>                                                     |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>SPOIL</u><br>Describe materials being transferred <u>to TIP</u><br>Quantity <u>8W</u> |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>Chris</u><br>Vehicle Reg <u>PS17 UNX</u>                                                              |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name _____<br>Disposal Address _____<br>Licence No. _____                                                     |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

| MINIMUM HIRE 9 HOURS |         |        |        | No. of<br>Loads |
|----------------------|---------|--------|--------|-----------------|
| Day                  | Hours   | Travel | Total  |                 |
| Work:                | Worked: | Time:  | Hours: |                 |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

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Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_  
Date: 23/11 No: 3667

|                                                |                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>Bowmer Kirkman</u><br>Site Address: <u>NOMA PROJECT</u>                                       |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>SPOIL</u><br>Describe materials being transferred _____<br>Quantity <u>1x8W</u> |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>Lee</u><br>Vehicle Reg <u>PS17 UNX</u>                                                          |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>TV CR</u><br>Disposal Address _____<br>Licence No. _____                                        |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

| MINIMUM HIRE 9 HOURS |        |        |  | No. of<br>Loads |
|----------------------|--------|--------|--|-----------------|
| Hours                | Travel | Total  |  |                 |
| Worked:              | Time:  | Hours: |  |                 |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_  
Date: 24/11 No: 3674

|                                                                                                                      |                                                                                                                 |                 |              |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|--------------|
| <b>A</b><br>Producer<br>of the<br>materials                                                                          | Company / Name <u>Bowman Kirkland</u><br>Site Address: <u>NOMA Plot</u>                                         |                 |              |
| <b>B</b><br>Description<br>of the<br>materials                                                                       | How are materials contained? _____<br>Describe materials being transferred <u>Spoil</u><br>Quantity <u>1x8W</u> |                 |              |
| <b>C</b><br>Carrier of<br>the materials                                                                              | Drivers Name <u>Lee</u><br>Vehicle Reg <u>VNY</u>                                                               |                 |              |
| <b>D</b><br>Disposer<br>of the<br>materials                                                                          | Company Name <u>TIP</u><br>Disposal Address <u>Agecroft</u><br>Licence No. _____                                |                 |              |
| Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request |                                                                                                                 | No. of<br>Loads |              |
| MINIMUM HIRE 9 HOURS                                                                                                 |                                                                                                                 |                 |              |
| Day                                                                                                                  | Hours                                                                                                           | Travel          | Total        |
| Work: _____                                                                                                          | Worked: _____                                                                                                   | Time: _____     | Hours: _____ |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_  
Date: 04/11/21 No: 3619

|                                                                                                                      |                                                                                                                      |                 |              |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|--------------|
| <b>A</b><br>Producer<br>of the<br>materials                                                                          | Company / Name <u>BOWMAN</u><br>Site Address: <u>KIRKLAND</u><br><u>NOMA PROJECT</u>                                 |                 |              |
| <b>B</b><br>Description<br>of the<br>materials                                                                       | How are materials contained? _____<br>Describe materials being transferred <u>SPILL TO TIP</u><br>Quantity <u>8W</u> |                 |              |
| <b>C</b><br>Carrier of<br>the materials                                                                              | Drivers Name <u>Brian</u><br>Vehicle Reg <u>PORTUGAL</u>                                                             |                 |              |
| <b>D</b><br>Disposer<br>of the<br>materials                                                                          | Company Name <u>Willow</u><br>Disposal Address <u>Agecroft.</u><br>Licence No. _____                                 |                 |              |
| Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request |                                                                                                                      | No. of<br>Loads |              |
| MINIMUM HIRE 9 HOURS                                                                                                 |                                                                                                                      |                 |              |
| Day                                                                                                                  | Hours                                                                                                                | Travel          | Total        |
| Work: _____                                                                                                          | Worked: _____                                                                                                        | Time: _____     | Hours: _____ |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_

Date: 25.11.21 No: 19806

|                                                                                                                      |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials                                                                          | Company / Name <u>B + W</u><br>Site Address: <u>NOMA PROJECT</u>                                                |
| <b>B</b><br>Description<br>of the<br>materials                                                                       | How are materials contained? <u>1x8w</u><br>Describe materials being transferred <u>SPOIL</u><br>Quantity _____ |
| <b>C</b><br>Carrier of<br>the materials                                                                              | Drivers Name <u>CHARLEL</u><br>Vehicle Reg <u>PO17 UAL</u>                                                      |
| <b>D</b><br>Disposer<br>of the<br>materials                                                                          | Company Name <u>CHARTRANGE</u><br>Disposal Address <u>TIP</u><br>Licence No. _____                              |
| Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request |                                                                                                                 |
| MINIMUM HIRE 9 HOURS                                                                                                 |                                                                                                                 |
| Day _____                                                                                                            | Hours _____                                                                                                     |
| Work: _____                                                                                                          | Worked: _____                                                                                                   |
| Travel _____                                                                                                         | Time: _____                                                                                                     |
| Total _____                                                                                                          | Hours: _____                                                                                                    |
| No. of Loads <u>1</u>                                                                                                |                                                                                                                 |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_

Date: 25/11 No: 3680

|                                                                                                                      |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials                                                                          | Company / Name <u>Bowman Kirkland</u><br>Site Address: <u>NOMA</u>                                              |
| <b>B</b><br>Description<br>of the<br>materials                                                                       | How are materials contained? _____<br>Describe materials being transferred <u>SPOIL</u><br>Quantity <u>1x8w</u> |
| <b>C</b><br>Carrier of<br>the materials                                                                              | Drivers Name <u>Lee</u><br>Vehicle Reg <u>VNY</u>                                                               |
| <b>D</b><br>Disposer<br>of the<br>materials                                                                          | Company Name <u>TIP</u><br>Disposal Address _____<br>Licence No. _____                                          |
| Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request |                                                                                                                 |
| MINIMUM HIRE 9 HOURS                                                                                                 |                                                                                                                 |
| Day _____                                                                                                            | Hours _____                                                                                                     |
| Work: _____                                                                                                          | Worked: _____                                                                                                   |
| Travel _____                                                                                                         | Time: _____                                                                                                     |
| Total _____                                                                                                          | Hours: _____                                                                                                    |
| No. of Loads _____                                                                                                   |                                                                                                                 |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_

Date: 25/11/21 No: 3625

|                                                                                                                      |                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials                                                                          | Company / Name <u>Bowman</u><br>Site Address: <u>KIRKLAND</u><br><u>NOMA PROJECT</u>                                  |
| <b>B</b><br>Description<br>of the<br>materials                                                                       | How are materials contained? <u>SPOIL</u><br>Describe materials being transferred <u>TO TIP</u><br>Quantity <u>8w</u> |
| <b>C</b><br>Carrier of<br>the materials                                                                              | Drivers Name <u>Brian</u><br>Vehicle Reg <u>PO17 UGL</u>                                                              |
| <b>D</b><br>Disposer<br>of the<br>materials                                                                          | Company Name _____<br>Disposal Address _____<br>Licence No. _____                                                     |
| Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request |                                                                                                                       |
| MINIMUM HIRE 9 HOURS                                                                                                 |                                                                                                                       |
| Day _____                                                                                                            | Hours _____                                                                                                           |
| Work: _____                                                                                                          | Worked: _____                                                                                                         |
| Travel _____                                                                                                         | Time: _____                                                                                                           |
| Total _____                                                                                                          | Hours: _____                                                                                                          |
| No. of Loads <u>✓</u>                                                                                                |                                                                                                                       |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_

Date: 30-11-21 No: 19392

|                                                                                                                      |                                                                                                                 |             |              |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------|--------------|
| <b>A</b><br>Producer<br>of the<br>materials                                                                          | Company / Name <u>BOOMER KIRKLAND</u><br>Site Address: <u>NOMA PLOT 4</u>                                       |             |              |
| <b>B</b><br>Description<br>of the<br>materials                                                                       | How are materials contained? _____<br>Describe materials being transferred <u>SPILL</u><br>Quantity <u>1X8W</u> |             |              |
| <b>C</b><br>Carrier of<br>the materials                                                                              | Drivers Name <u>TOBY</u><br>Vehicle Reg <u>PJ17 VNX</u>                                                         |             |              |
| <b>D</b><br>Disposer<br>of the<br>materials                                                                          | Company Name <u>CHARTRANGE</u><br>Disposal Address <u>TIP</u><br>Licence No. _____                              |             |              |
| Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request |                                                                                                                 |             |              |
| MINIMUM HIRE 9 HOURS                                                                                                 |                                                                                                                 |             |              |
| Day                                                                                                                  | Hours                                                                                                           | Travel      | Total        |
| Work: _____                                                                                                          | Worked: _____                                                                                                   | Time: _____ | Hours: _____ |
| No. of Loads                                                                                                         |                                                                                                                 |             |              |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_

Date: 30/11/21 No: 3648

|                                                                                                                      |                                                                                                                       |             |              |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------|--------------|
| <b>A</b><br>Producer<br>of the<br>materials                                                                          | Company / Name <u>BOOMER</u><br>Site Address: <u>KIRKLAND</u><br><u>NOMA PROJECT</u>                                  |             |              |
| <b>B</b><br>Description<br>of the<br>materials                                                                       | How are materials contained? <u>SPILL</u><br>Describe materials being transferred <u>TO TIP</u><br>Quantity <u>8W</u> |             |              |
| <b>C</b><br>Carrier of<br>the materials                                                                              | Drivers Name <u>SCOTT</u><br>Vehicle Reg <u>PO17 UGL</u>                                                              |             |              |
| <b>D</b><br>Disposer<br>of the<br>materials                                                                          | Company Name _____<br>Disposal Address _____<br>Licence No. _____                                                     |             |              |
| Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request |                                                                                                                       |             |              |
| MINIMUM HIRE 9 HOURS                                                                                                 |                                                                                                                       |             |              |
| Day                                                                                                                  | Hours                                                                                                                 | Travel      | Total        |
| Work: _____                                                                                                          | Worked: _____                                                                                                         | Time: _____ | Hours: _____ |
| No. of Loads                                                                                                         |                                                                                                                       |             |              |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire. SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: \_\_\_\_\_

Date: 30.11.21 No: 19828

|                                                                                                                      |                                                                                                                 |             |              |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------|--------------|
| <b>A</b><br>Producer<br>of the<br>materials                                                                          | Company / Name <u>B+H</u><br>Site Address: <u>NOMA PROJECT</u>                                                  |             |              |
| <b>B</b><br>Description<br>of the<br>materials                                                                       | How are materials contained? <u>1X8W</u><br>Describe materials being transferred <u>SPILL</u><br>Quantity _____ |             |              |
| <b>C</b><br>Carrier of<br>the materials                                                                              | Drivers Name <u>CARROLL</u><br>Vehicle Reg <u>PO17 UAL</u>                                                      |             |              |
| <b>D</b><br>Disposer<br>of the<br>materials                                                                          | Company Name <u>CHARTRANGE</u><br>Disposal Address <u>TIP</u><br>Licence No. _____                              |             |              |
| Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request |                                                                                                                 |             |              |
| MINIMUM HIRE 9 HOURS                                                                                                 |                                                                                                                 |             |              |
| Day                                                                                                                  | Hours                                                                                                           | Travel      | Total        |
| Work: _____                                                                                                          | Worked: _____                                                                                                   | Time: _____ | Hours: _____ |
| No. of Loads                                                                                                         |                                                                                                                 |             |              |

Consignees Signature: \_\_\_\_\_

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire, SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: 18/11/21 No: 19475

|                                                |                                                                                                                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>BOWMER</u><br>Site Address: <u>KIRKLAND</u><br><u>NOMA</u>                                                           |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>SPILL</u><br>Describe materials being transferred <u>HARDCORE</u><br><u>AWAY</u><br>Quantity <u>8W</u> |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>BENSON</u><br>Vehicle Reg <u>P017UCR</u>                                                                               |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>DUKINFIELD</u><br>Disposal Address<br>Licence No.                                                                      |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

|                      |                  |                 |                 |                 |
|----------------------|------------------|-----------------|-----------------|-----------------|
| MINIMUM HIRE 9 HOURS |                  |                 |                 | No. of<br>Loads |
| Day<br>Work:         | Hours<br>Worked: | Travel<br>Time: | Total<br>Hours: |                 |

Consignees Signature: [Signature]

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

Wharf Street, Dukinfield,  
Cheshire, SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: 18-11-21 No: 19351

|                                                |                                                                                                                                          |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>BOWMER</u><br>Site Address: <u>NOMA, PLOT</u><br><u>BOWMER KIRKLAND</u>                                                |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>SPILL</u><br>Describe materials being transferred <u>HARDCORE</u><br><u>AWAY</u><br>Quantity <u>1X8W</u> |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>TONY</u><br>Vehicle Reg <u>PJ17VNX</u>                                                                                   |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>CHARTRANGE</u><br>Disposal Address <u>TIP</u><br>Licence No.                                                             |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

|                      |                  |                 |                 |                 |
|----------------------|------------------|-----------------|-----------------|-----------------|
| MINIMUM HIRE 9 HOURS |                  |                 |                 | No. of<br>Loads |
| Day<br>Work:         | Hours<br>Worked: | Travel<br>Time: | Total<br>Hours: |                 |

Consignees Signature: [Signature]

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

# Chartrange.

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Cheshire, SK16 4NJ  
Tel: 0161-339 4949  
Fax: 0161-339 4437

## DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: 18/10 No: 2741

|                                                |                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>A</b><br>Producer<br>of the<br>materials    | Company / Name <u>Bowman Kirkland</u><br>Site Address: <u>NOMA</u>                                        |
| <b>B</b><br>Description<br>of the<br>materials | How are materials contained? <u>SPILL</u><br>Describe materials being transferred<br>Quantity <u>1X8W</u> |
| <b>C</b><br>Carrier of<br>the materials        | Drivers Name <u>LEE</u><br>Vehicle Reg <u>P517UNY</u>                                                     |
| <b>D</b><br>Disposer<br>of the<br>materials    | Company Name <u>TIP</u><br>Disposal Address<br>Licence No.                                                |

Equipment is hired at the current Contractors's Plant Association "Conditions of Hire" - copies available on request

|                      |                  |                 |                 |                 |
|----------------------|------------------|-----------------|-----------------|-----------------|
| MINIMUM HIRE 9 HOURS |                  |                 |                 | No. of<br>Loads |
| Day<br>Work:         | Hours<br>Worked: | Travel<br>Time: | Total<br>Hours: |                 |

Consignees Signature: [Signature]

CONDITIONS OF SALE - It is essential that all written particulars entered above should be carefully checked by the consignee since this delivery note once signed by the consignee represents formal acceptance of the material in good order and condition and subsequent complaints cannot be accepted. All complaints whether in respect of material or circumstances or delivery must be made to the driver of the vehicle and be confirmed in writing direct to the company immediately.

Based across the UK with  
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London, Liverpool and Glasgow.

**Manchester (Head Office)**

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e: [info@thelkgroup.com](mailto:info@thelkgroup.com)



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- » Asbestos
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- » Land Remediation
- » Project Management
- » Land Drilling