NOMA MARKETING SUITE, MANCHESTER

SITE COMPLETION REPORT

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



INCREASING LAND VALUE

LK GROUP

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

Revision Record			
Revision No.	**Date**	**Nature of Revision**	**Approved By**

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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)[1], 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 16th 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.

[1] 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^3 of topsoil was imported from Tarmac Topscape, 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[2].

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.

[2] 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)[3,4].
- LQM Suitable 4 Use Levels (S4ULs) [5].

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[6,7] and naphthalene the most volatile and soluble[8]. 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[9]. 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.

[3] Defra (2014). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Policy Companion Document."
[4] CL:AIRE (2013). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Final project Report."
[5] LQM (2014). "The LQM/CIEH S4ULs for Human Health Risk Assessment."
[6] EA (2002). "Contaminants in Soils: Collation of Toxicological Data and Intake Values for Humans. Benzo[a]pyrene." R&D Publication TOX2.
[7] USEPA (1984). "Health Effects Assessment of Polycyclic Aromatic Hydrocarbons (PAHs). EPA 540/1-86-013."
[8] EA (2003). "Review of the Fate and Transport of Selected Contaminants in the Soil Environment." Draft technical report P5-079/TR1.
[9] CL:AIRE (2013). "SP1010: Development of Category 4 Screening Levels and Assessment of Land Affected by Contamination – Final project Report."

4 Disposal Tickets

Selected disposal tickets and an excel spreadsheet of loads removed have been provided to LKC. A total of *c.* 250m^3 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

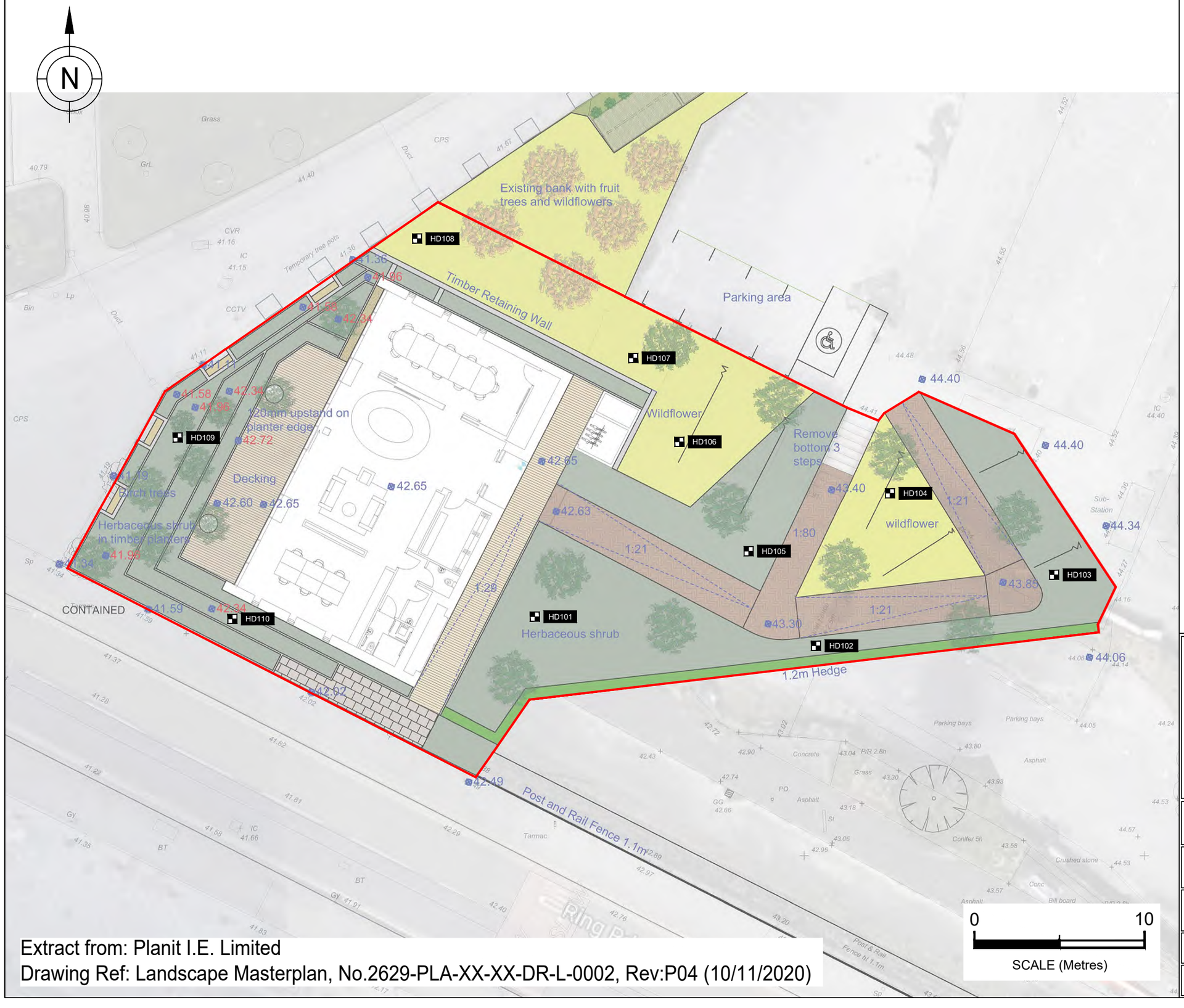




Client: NOMA GP Ltd		Title: Site Location & Boundary Plan	
Site: NOMA Marketing Suite		Scale (see scale bar): 1:25,000 & 1:1,000 @ A4	Figure: 1
Job No.: LKC 22 1476	Drawn By: JW	Checked By: PQ	Drawn: Sept 2022

Revision:

LK CONSULT



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.

LK CONSULT LIMITED

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:	Drawn:
AC	JW	Aug 2022

APPENDIX A

PHOTOGRAPHS

General Site Photographs



Photograph 1- View of sourthen 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.



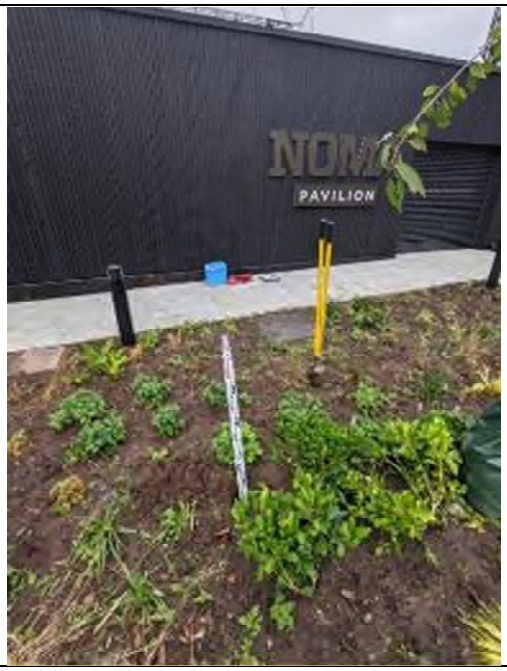
Photograph 5- View of area containing HD107-108 from the north, looking west.



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

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

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

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

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: LKC 22 1476 Noma Marketing Suite, Manchester

Client: LK Consult		**Chemtest Job No.:**			22-32302	22-32302	22-32302	22-32302	22-32302	22-32302	22-32302	22-32302
Quotation No.:		**Chemtest Sample ID.:**			1493289	1493290	1493291	1493292	1493293	1493294	1493295	1493296
Order No.: 740523		Client Sample Ref.:			ES	ES	ES	ES	ES	ES	ES	ES
		Client Sample ID.:			HD101	HD102	HD103	HD104	HD105	HD106	HD107	HD108
		Sample Location:			HD101	HD102	HD103	HD104	HD105	HD106	HD107	HD108
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
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

Client: LK Consult		**Chemtest Job No.:**			22-32302	22-32302	22-32302	22-32302	22-32302	22-32302	22-32302	22-32302
Quotation No.:		**Chemtest Sample ID.:**			1493289	1493290	1493291	1493292	1493293	1493294	1493295	1493296
Order No.: 740523		Client Sample Ref.:			ES	ES	ES	ES	ES	ES	ES	ES
		Client Sample ID.:			HD101	HD102	HD103	HD104	HD105	HD106	HD107	HD108
		Sample Location:			HD101	HD102	HD103	HD104	HD105	HD106	HD107	HD108
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Date Sampled:			23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022	23-Aug-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
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

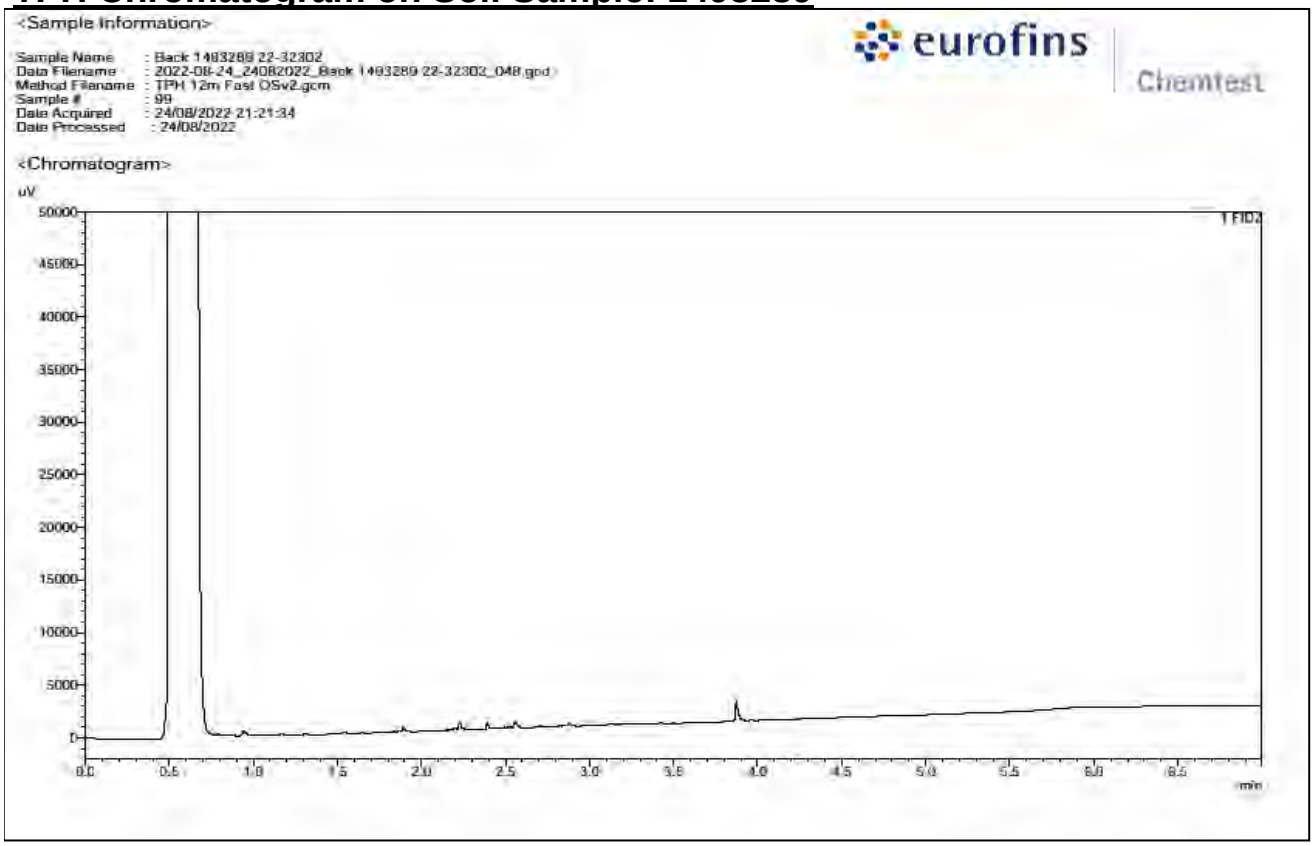
Client: LK Consult		**Chemtest Job No.:**			22-32302	22-32302
Quotation No.:		**Chemtest Sample ID.:**			1493297	1493298
Order No.: 740523		Client Sample Ref.:			ES	ES
		Client Sample ID.:			HD109	HD110
		Sample Location:			HD109	HD110
		Sample Type:			SOIL	SOIL
		Date Sampled:			23-Aug-2022	23-Aug-2022
		Asbestos Lab:			DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**		
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

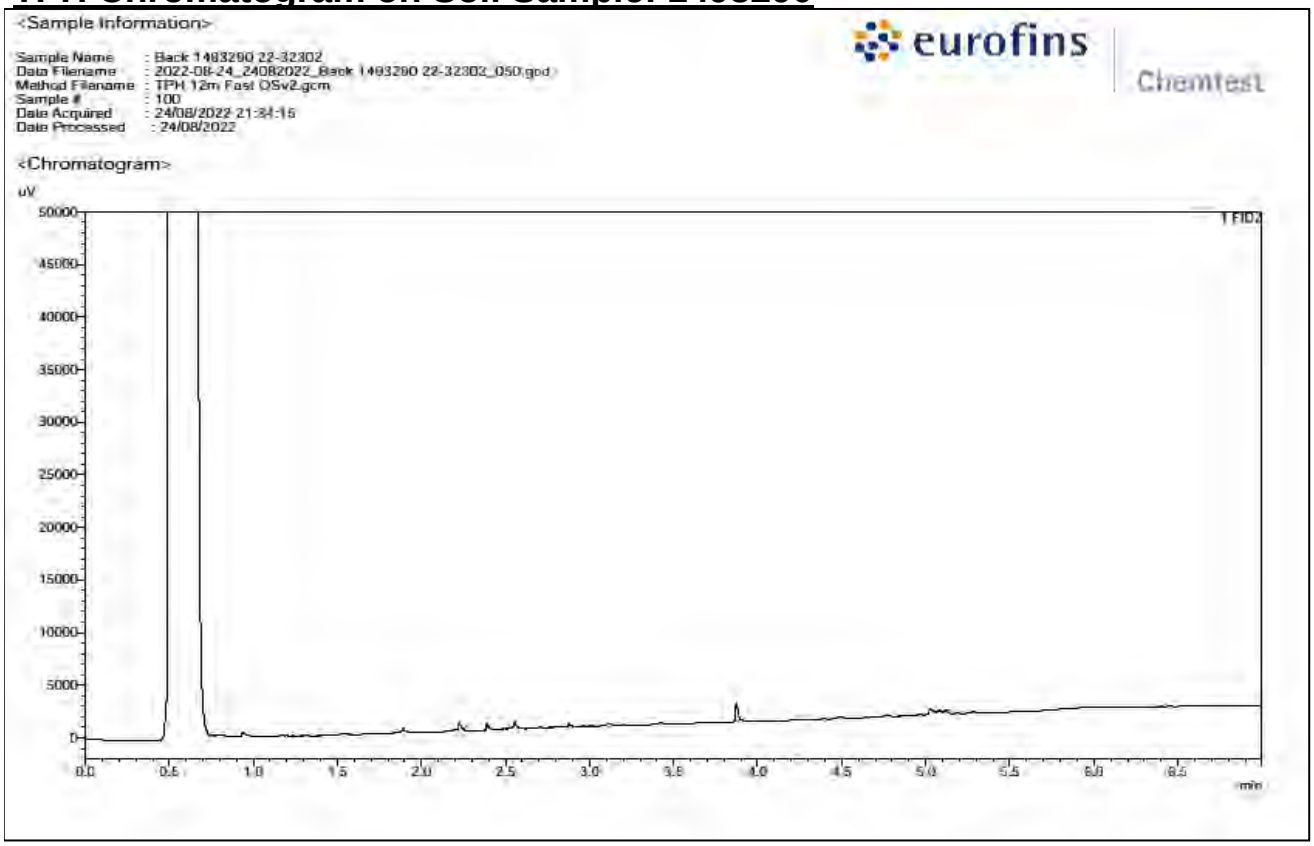
Project: LKC 22 1476 Noma Marketing Suite, Manchester

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

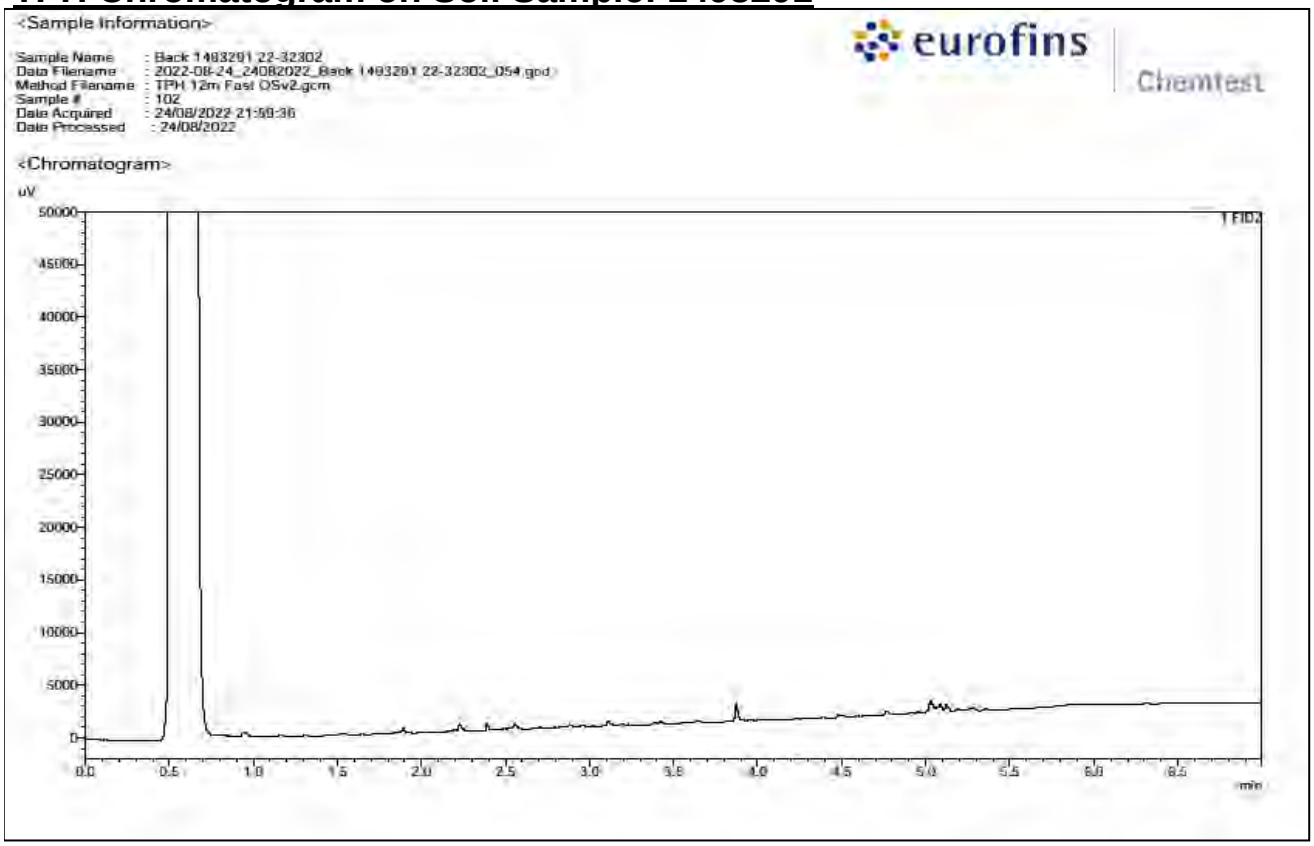
TPH Chromatogram on Soil Sample: 1493289



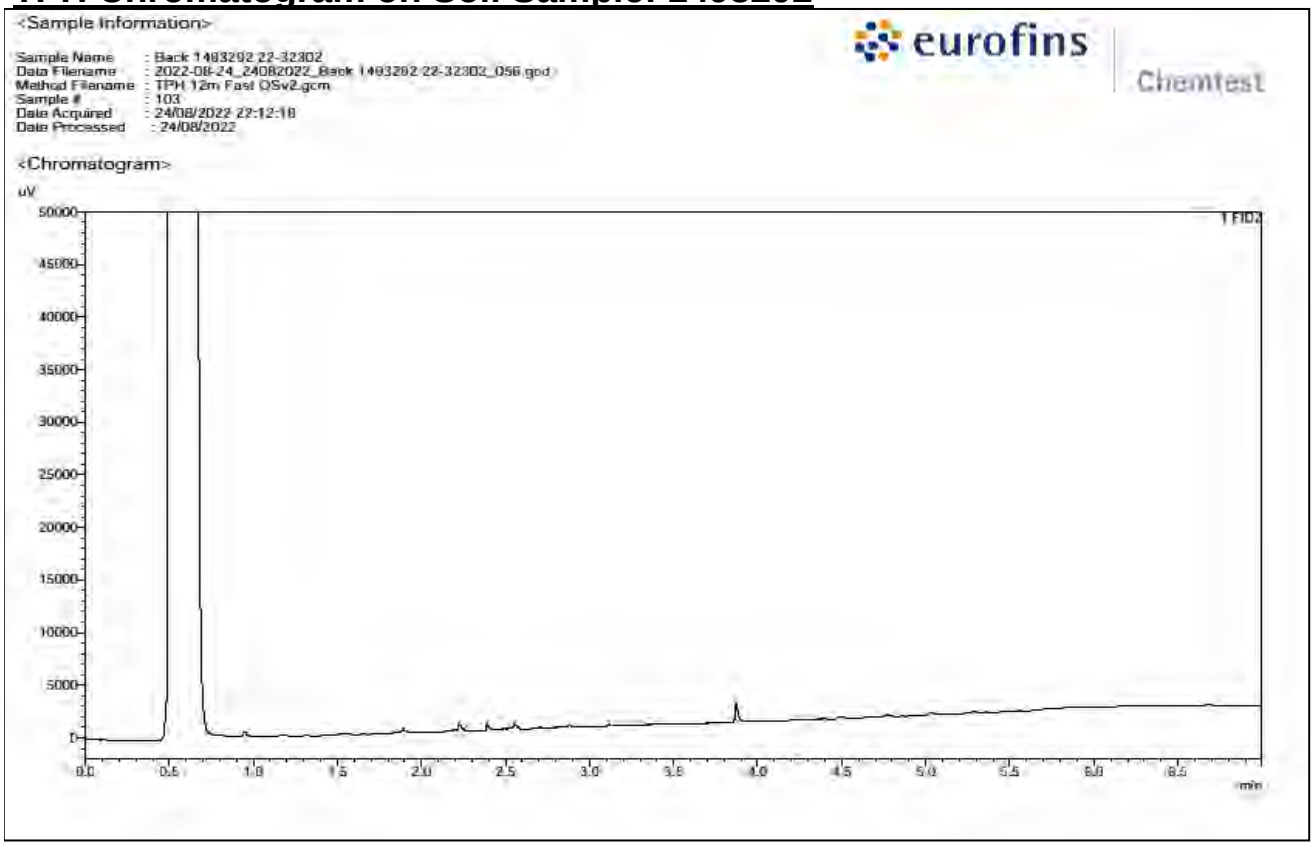
TPH Chromatogram on Soil Sample: 1493290



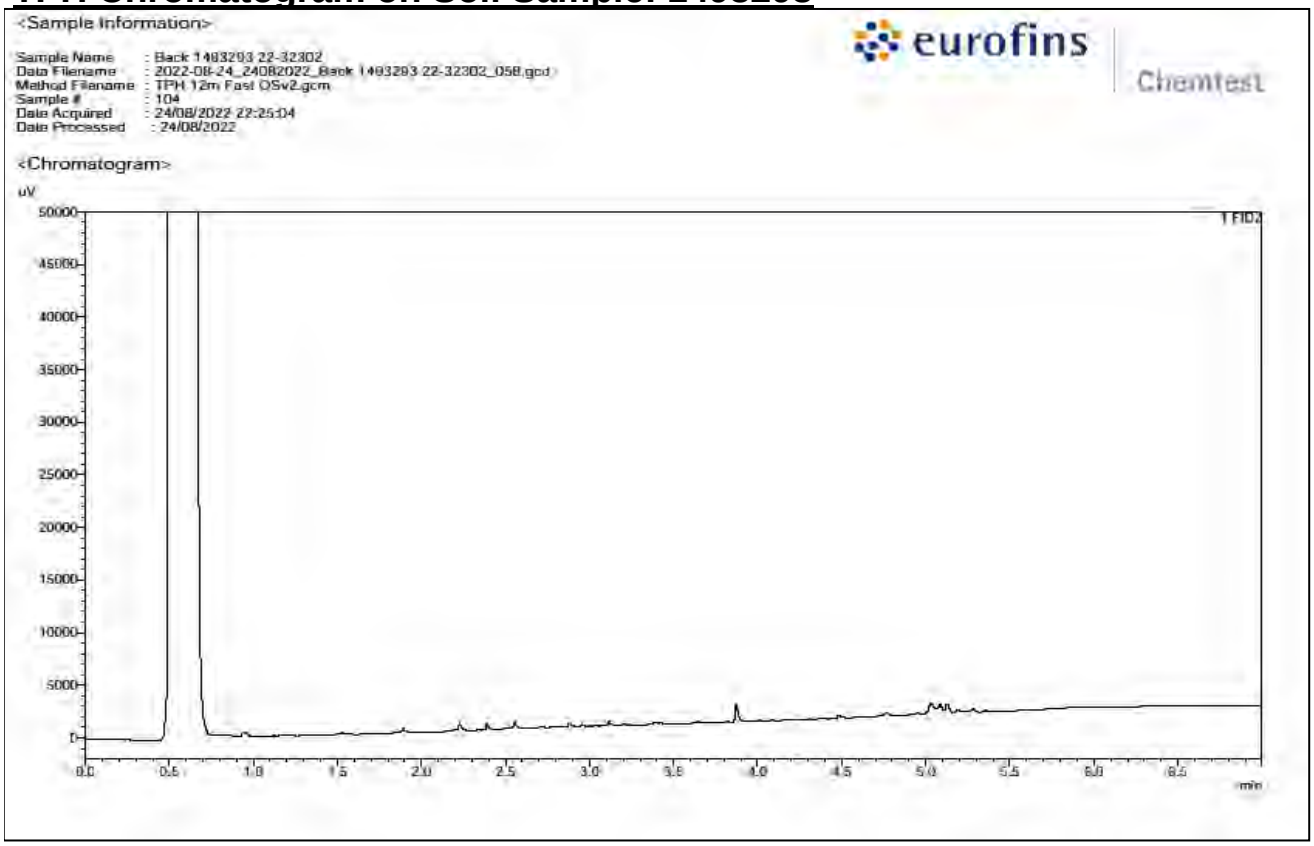
TPH Chromatogram on Soil Sample: 1493291



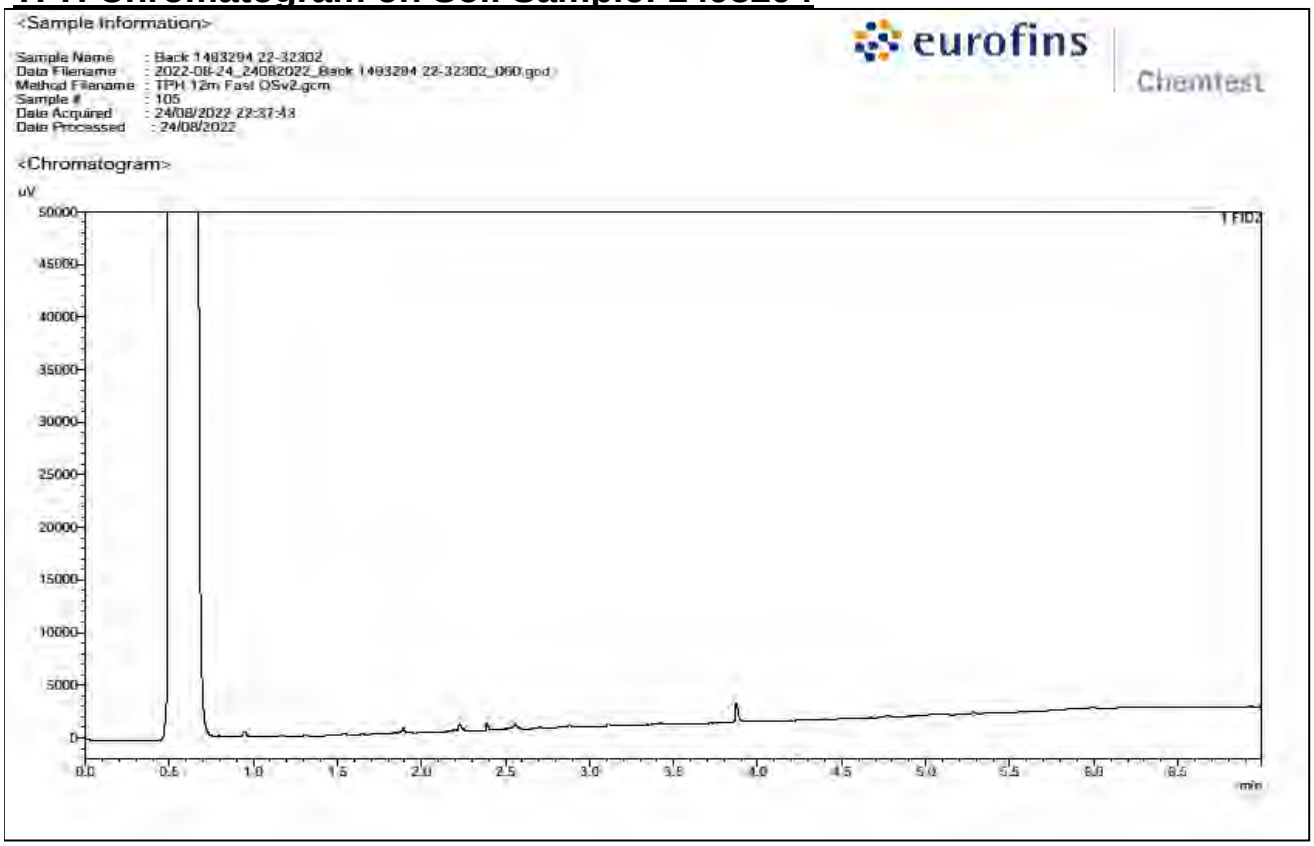
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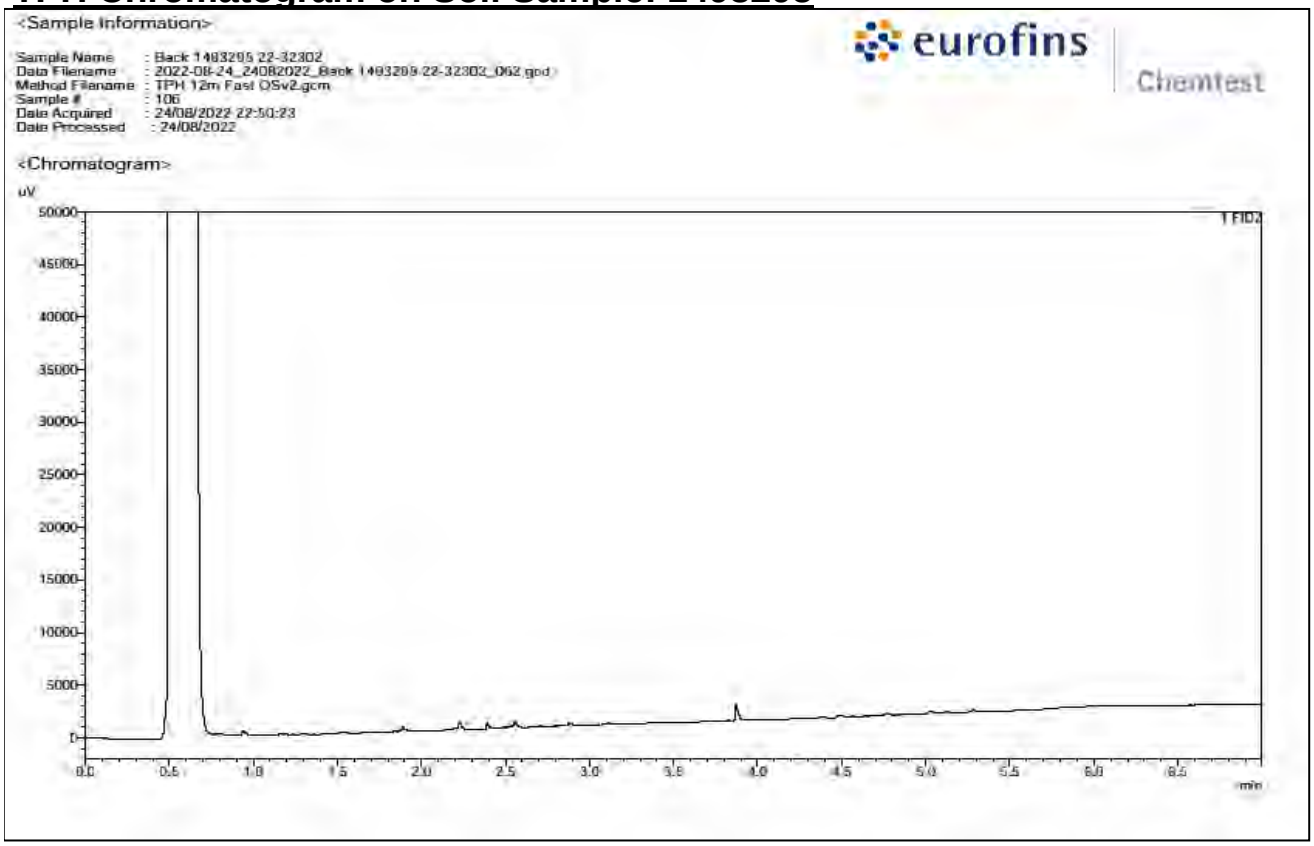
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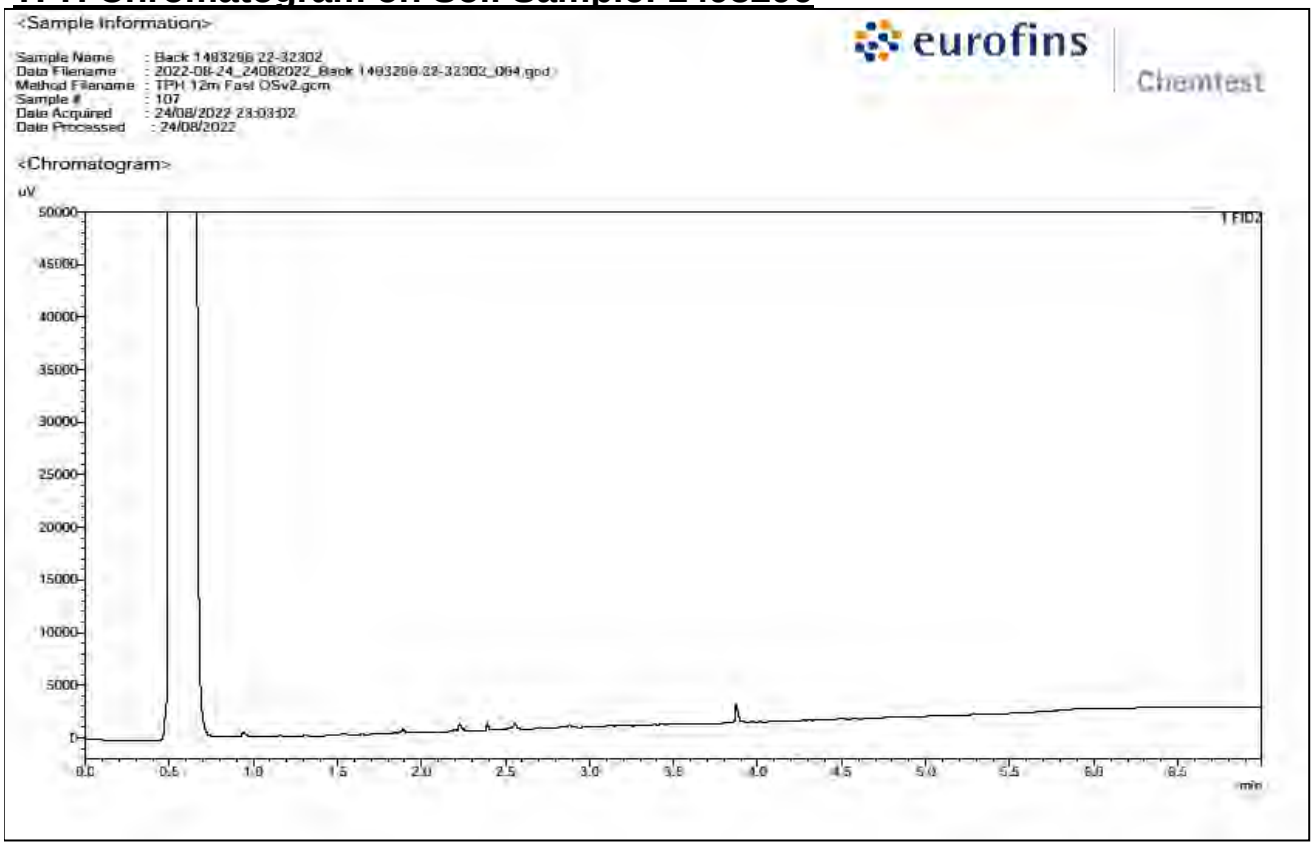
TPH Chromatogram on Soil Sample: 1493294



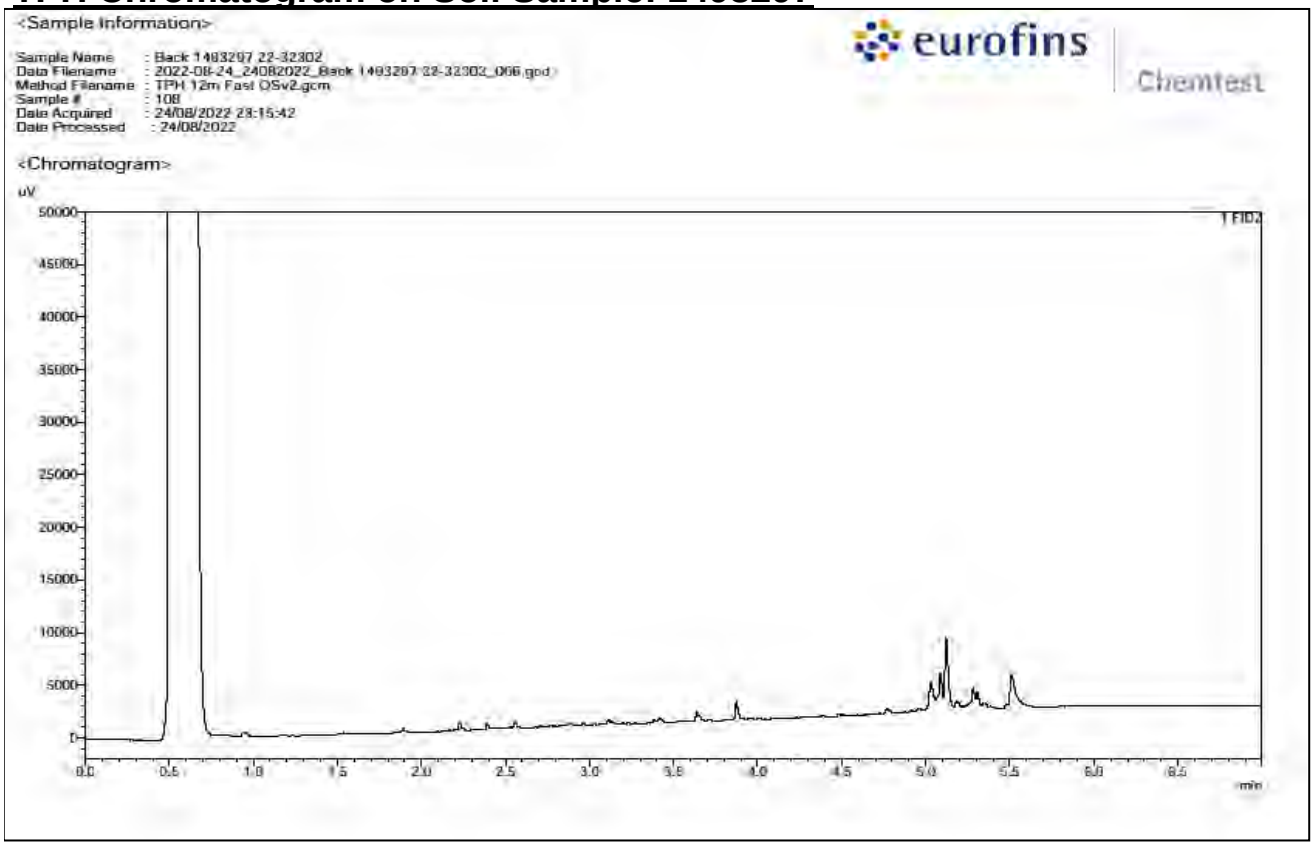
TPH Chromatogram on Soil Sample: 1493295



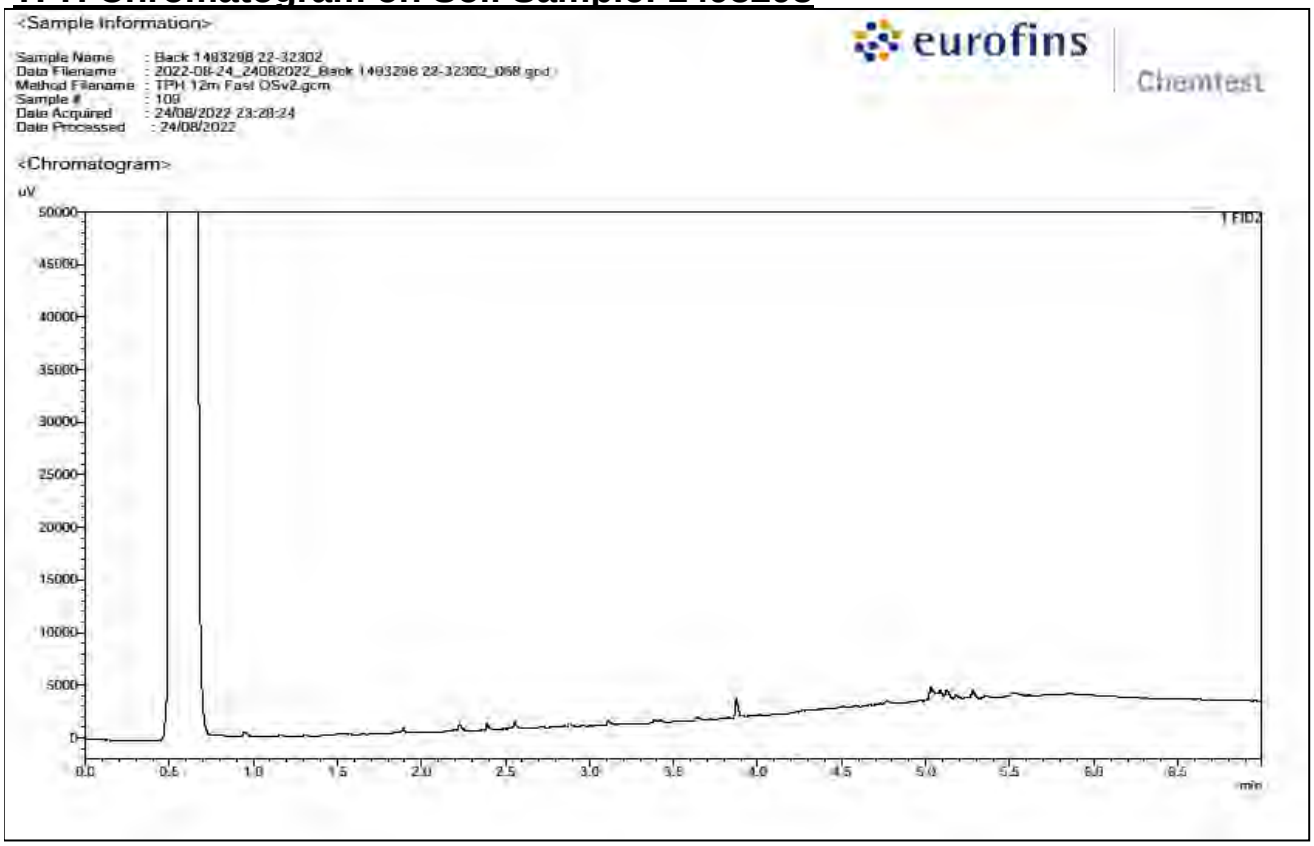
TPH Chromatogram on Soil Sample: 1493296



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	Allkaline 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-diphenylcarbazide.
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*; Dibenz[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

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

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)

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

APPENDIX C

GENERIC ASSESSMENT CRITERIA - SOIL

CATEGORY 4 SCREENING LEVELS

Substance	Residential (with home-grown produce)	Residential (without home-grown produce)	Allotments	Commercial	Public Open Space 1	Public Open Space 2
Arsenic	37 mg/kg	40 mg/kg	49 mg/kg	640 mg/kg	79 mg/kg	170 mg/kg
Benzene	0.87 mg/kg	3.3 mg/kg	0.18 mg/kg	98 mg/kg	140 mg/kg	230 mg/kg
Benzo(a)pyrene	5.0 mg/kg	5.3 mg/kg	5.7 mg/kg	77 mg/kg	10 mg/kg	21 mg/kg
Cadmium	22 mg/kg	150 mg/kg	3.9 mg/kg	410 mg/kg	220 mg/kg	880 mg/kg
Chromium VI	21 mg/kg	21 mg/kg	170 mg/kg	49 mg/kg	21 mg/kg	250 mg/kg
Lead	200 mg/kg	310 mg/kg	80 mg/kg	2300 mg/kg	630 mg/kg	1300 mg/kg
Tetrachlorethene (PCE) – 1% SOM	0.31 mg/kg	0.32 mg/kg	2.0 mg/kg	24 mg/kg	3,200 mg/kg	1,400 mg/kg
Tetrachlorethene (PCE) – 2.5% SOM	0.70 mg/kg	0.71 mg/kg	4.8 mg/kg	55 mg/kg	3,300 mg/kg	1,900 mg/kg
Tetrachlorethene (PCE) – 6% SOM	1.6 mg/kg	1.6 mg/kg	11 mg/kg	130 mg/kg	3,400 mg/kg	2,500 mg/kg
Trichlorethene (TCE) – 1% SOM	0.0093 mg/kg	0.0097 mg/kg	0.032 mg/kg	0.73 mg/kg	76 mg/kg	41 mg/kg
Trichlorethene (TCE) – 2.5% SOM	0.020 mg/kg	0.020 mg/kg	0.072 mg/kg	1.5 mg/kg	78 mg/kg	54 mg/kg
Trichlorethene (TCE) – 6% SOM	0.043 mg/kg	0.045 mg/kg	0.16 mg/kg	3.4 mg/kg	79 mg/kg	69 mg/kg
Vinyl Chloride (VC) – 1%SOM	0.0064 mg/kg	0.015 mg/kg	0.0017 mg/kg	1.1 mg/kg	7.8 mg/kg	18 mg/kg
Vinyl Chloride (VC) – 2.5%SOM	0.010 mg/kg	0.019 mg/kg	0.0031 mg/kg	1.4 mg/kg	7.8 mg/kg	19 mg/kg
Vinyl Chloride (VC) – 6%SOM	0.017 mg/kg	0.029 mg/kg	0.0058 mg/kg	2.2 mg/kg	7.8 mg/kg	19 mg/kg
1,2-Dichloroethane 1% SOM	0.11 mg/kg	0.16 mg/kg	0.054 mg/kg	12 mg/kg	300 mg/kg	300 mg/kg
1,2-Dichloroethane 2.5% SOM	0.18 mg/kg	0.24 mg/kg	0.10 mg/kg	17 mg/kg	310 mg/kg	330 mg/kg
1,2-Dichloroethane 6% SOM	0.31 mg/kg	0.41 mg/kg	0.19 mg/kg	29 mg/kg	310 mg/kg	380 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.

	Contaminant	SOM	LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
			Res +	Res -	Allot.	Comm.	POS_{resi}	POS_{park}
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) vap	16	30 (25.8) vap
	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) vap	22	56,000 (869) vap	56,000	87,000 (869) vap
		2.5%	290	1,900	51	110,000 (1,920) vap	56,000	95,000 (1,920) vap
		6%	660	3,900	120	180,000 (4,360) vap	56,000	100,000 (4,360) vap
	Ethylbenzene	1%	47	83	16	5,700 (518) vap	24,000	17,000 (518) vap
		2.5%	110	190	39	13,000 (1,220) vap	24,000	22,000 (1,220) vap
		6%	260	440	91	27,000 (2,840) vap	25,000	27,000 (2,840) vap
	o-xylene	1%	60	88	28	6,600 (478) sol	41,000	17,000 (478) sol
		2.5%	140	210	67	15,000 (1,120) sol	42,000	24,000 (1,120) sol
		6%	330	480	160	33,000 (2,620) sol	43,000	33,000 (2,620) sol
	m-xylene	1%	59	82	31	6,200 (625) vap	41,000	17,000 (625) vap
		2.5%	140	190	74	14,000 (1,470) vap	42,000	24,000 (1,470) vap
		6%	320	450	170	31,000 (3,460) vap	43,000	32,000 (3,460) vap
	p-xylene	1%	56	79	29	5,900 (576) sol	41,000	17,000 (576) sol
		2.5%	130	180	69	14,000 (1,350) sol	42,000	23,000 (1,350) sol
		6%	310	430	160	30,000 (3,170) sol	43,000	31,000 (3,170) sol

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.

			LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
	Contaminant	**SOM**	**Res +**	**Res -**	**Allot.**	**Comm.**	**POS_{resi}**	**POS_{park}**
Polycyclic Aromatic Hydrocarbons (PAHs)	Acenaphthene	1%	210	3,000 (57.1) [sol]	34	84,000 (57.0) [sol]	15,000	29,000
		2.5%	510	4,700 (141) [sol]	85	97,000 (141) [sol]	15,000	30,000
		6%	1,100	6,000 (336) [sol]	200	100,000	15,000	30,000
	Acenaphthylene	1%	170	2,900 (86.1) [sol]	28	83,000 (86.1) [sol]	15,000	29,000
		2.5%	420	4,600 (212) [sol]	69	97,000 (212) [sol]	15,000	30,000
		6%	920	6,000 (506) [sol]	160	100,000	15,000	30,000
	Anthracene	1%	2,400	31,000 (1.17) [vap]	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) [sol]	27	63,000 (30.9) [sol]	9,900	20,000
		2.5%	400	3,800 (76.5) [sol]	67	68,000	9,900	20,000
		6%	860	4,500 (183) [sol]	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 [f]	2.3 [f]	4.1 [f]	190 [f] (76.4) [sol]	4,900 [f]	1,200 [f] (76.4) [sol]
		2.5%	5.6 [f]	5.6 [f]	10 [f]	460 [f] (183) [sol]	4,900 [f]	1,900 [f] (183) [sol]
		6%	13 [f]	13 [f]	24 [f]	1,100 [f] (432) [sol]	4,900 [f]	3,000
	Phenanthrene	1%	95	1,300 (36.0) [sol]	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 (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

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

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

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.

	Contaminant	SOM	LQM Generic Assessment Criteria (mg/kg) Dry weight soil: Res +	Res -	Allot.	Comm.	POS_{resi}	POS_{park}
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) vap
		2.5%	18	18	110	1,300	140,000	76,000 (2,915) vap
		6%	39	40	240	3,000	140,000	100,000 (6,392) vap
	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) sol
		2.5%	0.39	0.40	1.5	42	1,400	1,100 (951) sol
		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-Trinitritoluene (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) sol
		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) vap
		2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) vap
		6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) vap
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) vap	1.2	5,600 (3.0E-03) vap	1,200	2,300
		2.5%	18	280 (7.0E-03) vap	2.9	7,400 (7.0E-03) vap	1,200	2,400
		6%	41	410 (1.6E-02) vap	6.8	8,400 (1.6E-02) vap	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.

	Contaminant	SOM	LQM Generic Assessment Criteria (mg/kg) Dry weight soil					
			Res +	Res -	Allot.	Comm.	POS_{resi}	POS_{park}
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) [sol]
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) [sol]
		6%	2.4	2.4	32	290	14,000	2,900
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) [sol]	90,000	24,000 (571) [sol]
		2.5%	55	57	230	4,800 (1,370) [sol]	95,000	36,000 (1,370) [sol]
		6%	130	130	540	11,000 (3,240) [sol]	98,000	51,000 (3,270) [sol]
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) [vap]
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) [vap]
		6%	15	15	320	1,300	19,000	4,000 (1,880) [vap]
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) [vap]	78	110 (39) [vap]
		2.5%	1.6	1.9	0.90	120 (98.1) [vap]	79	120
		6%	3.7	4.3	2.2	240 (235) [vap]	79	130
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) [sol]	100	190
		2.5%	12	30	3.1	770 (107) [sol]	100	190
		6%	22	38	7.0	830	100	190
	Hexachlorobenzene	1%	1.8 (0.20) [vap]	4.1 (0.20) [vap]	0.47	110 (0.20) [vap]	16	30
		2.5%	3.3 (0.50) [vap]	5.7 (0.50) [vap]	1.1	120	16	30
		6%	4.9	6.7 (1.2) [vap]	2.5	120	16	30
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 [g]	94	0.13 [g]	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) [vap]	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 [dir] (31,000)	760 [dir] (11,000)	760 [dir] (8,600)
		2.5%	550	1,300	140	1,500 [dir] (35,000)	1,500 [dir] (11,000)	1,500 [dir] (9,700)
		6%	1,100	2,300	280	3,200 [dir] (37,000)	3,200 [dir] (11,000)	3,200 [dir] (11,000)

NOTES

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

[dir] = S4uls based on threshold protective of direct skin contact with phenol (brackets long term exposure for illustration purposes).

[g] = 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

W: 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 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

A Producer of the materials	Company / Name B + M Site Address: NOMA PROJECT
B Description of the materials	How are materials contained? 1 x 8W Describe materials being transferred SOIL Quantity
C Carrier of the materials	Drivers Name C. PARRELL Vehicle Reg PO17 UAL
D Disposer of the materials	Company Name CHARTRANGE Disposal Address TIP Licence No.

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours Worked:	Travel Time:	Total Hours:

No. of Loads: 1

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.

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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 No: 3659

A Producer of the materials	Company / Name Bowmer Kirkland Site Address: NOMA Plot
B Description of the materials	How are materials contained? _____ Describe materials being transferred Spoil Quantity 1 x 8W
C Carrier of the materials	Drivers Name Lee Vehicle Reg PJ17 VNY
D Disposer of the materials	Company Name T.P Disposal Address _____ Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours 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.

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Tel: 0161-339 4949
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DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: _____

Date: 22-11-21 No: 19368

A Producer of the materials	Company / Name BOWMER KIRKLAND Site Address: NOMA PLOT 4
B Description of the materials	How are materials contained? _____ Describe materials being transferred SPOIL Quantity 1 x 8W
C Carrier of the materials	Drivers Name TONY Vehicle Reg PJ17 VNX
D Disposer of the materials	Company Name CHARTRANGE Disposal Address TIP Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours 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.

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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

A Producer of the materials
Company / Name: BOWMER+KIRKLAND
Site Address: NOMA PROJECT

B Description of the materials
How are materials contained?
Describe materials being transferred: SPOIL
Quantity: 1x8w/c

C Carrier of the materials
Drivers Name: CHRIS
Vehicle Reg: PJ17 VNX

D Disposer of the materials
Company Name: CHARTRANGE
Disposal Address: TIP
Licence No.

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

MINIMUM HIRE 9 HOURS

Day Work: | Hours 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.

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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

A Producer of the materials
Company / Name: BOWMER
Site Address: NOMA KIRKLAND PROJECT

B Description of the materials
How are materials contained? SPOIL
Describe materials being transferred TO TIP
Quantity 8W

C Carrier of the materials
Drivers Name: BRIAN
Vehicle Reg: POTTER

D Disposer of the materials
Company Name
Disposal Address
Licence No.

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

MINIMUM HIRE 9 HOURS

Day Work: | Hours Worked: | Travel Time: | Total Hours:

No. of Loads: 1

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.

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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

A Producer of the materials
Company / Name: B+K
Site Address: NOMA PROJECT

B Description of the materials
How are materials contained? 1x8w
Describe materials being transferred SPOIL
Quantity

C Carrier of the materials
Drivers Name: CHARTRANGE
Vehicle Reg: P07 UAL

D Disposer of the materials
Company Name: CHARTRANGE
Disposal Address: TIP
Licence No.

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

MINIMUM HIRE 9 HOURS

Day Work: | Hours Worked: | Travel Time: | Total Hours:

No. of Loads: 1

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.

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

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.:

Date: 23/11 No: 3667

A Producer of the materials
Company / Name: Bowman Kirkland
Site Address: NOMA Plots

B Description of the materials
How are materials contained? Spoil
Describe materials being transferred
Quantity 1x8W

C Carrier of the materials
Drivers Name: Lee
Vehicle Reg: PJ17UNY

D Disposer of the materials
Company Name: TIP C/R
Disposal Address
Licence No.

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

MINIMUM HIRE 9 HOURS

Hours Worked: | Travel Time: | Total Hours:

No. of Loads

nature:

- It is essential that all written particulars entered above should be carefully checked by the
very note once signed by the consignee represents formal acceptance of the material in
nd subsequent complaints cannot be accepted. All complaints whether in respect of
elivery must be made to the driver of the vehicle and be confirmed in writing direct

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

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: _____

Date: 24/11 No: 3674

A Producer of the materials	Company / Name: Bowman Kirkland Site Address: NOMA Plot	
B Description of the materials	How are materials contained? _____ Describe materials being transferred: Spoil Quantity: 1 x 8w	
C Carrier of the materials	Drivers Name: _____ Vehicle Reg: VNY	
D Disposer of the materials	Company Name: TYP Disposal Address: Agecroft Licence No. _____	

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours 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.

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

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: _____

Date: 24/11/21 No: 3619

A Producer of the materials	Company / Name: BOWMER Site Address: KIRKLAND NOMA PROJECT	
B Description of the materials	How are materials contained? SPOIL Describe materials being transferred TO TIP Quantity 8W	
C Carrier of the materials	Drivers Name: BRIAN Vehicle Reg: PORTUGAL	
D Disposer of the materials	Company Name: Viridor Disposal Address: Agecroft. Licence No. _____	

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours Worked:	Travel Time:	Total Hours:

No. of Loads: 1

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.

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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

A Producer of the materials	Company / Name B + K Site Address: NOMA PROJECT
B Description of the materials	How are materials contained? 1x8w' Describe materials being transferred SPOIL Quantity
C Carrier of the materials	Drivers Name C FARRELL Vehicle Reg P017 UAL
D Disposer of the materials	Company Name CHARTRANGE Disposal Address TIP Licence No.

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours Worked:	Travel Time:	Total Hours:

No. of Loads: 1

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.

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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

A Producer of the materials	Company / Name Bowmer Kirkland Site Address: NOMA
B Description of the materials	How are materials contained? _____ Describe materials being transferred SPOIL Quantity 1x8W
C Carrier of the materials	Drivers Name _____ Vehicle Reg VNY
D Disposer of the materials	Company Name TIP Disposal Address _____ Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours 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.

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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

A Producer of the materials	Company / Name BOWMER Site Address: KIRKLAND NOMA PROJECT
B Description of the materials	How are materials contained? SPOIL Describe materials being transferred TO TIP Quantity 8W
C Carrier of the materials	Drivers Name _____ Vehicle Reg P017UAL
D Disposer of the materials	Company Name _____ Disposal Address _____ Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours Worked:	Travel Time:	Total Hours:

No. of Loads: 1

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

A Producer of the materials
Company / Name BOOMER KIRKLAND
Site Address: NOMA PLOT 4

B Description of the materials
How are materials contained? _____
Describe materials being transferred SPOIL
Quantity 1X8W

C Carrier of the materials
Drivers Name TONY
Vehicle Reg RJ17 VNX

D Disposer of the materials
Company Name CHARTRANGE
Disposal Address TIP
Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours 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: 30/11/21 No: 3648

A Producer of the materials
Company / Name BOOMER
Site Address: KIRKLAND
NOMA PROJECT

B Description of the materials
How are materials contained? SPOIL
Describe materials being transferred TO TIP
Quantity 8W

C Carrier of the materials
Drivers Name BRIAN
Vehicle Reg PO17 VGL

D Disposer of the materials
Company Name _____
Disposal Address _____
Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours 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.

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

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: _____

Date: 30.11.21 No: 19828

A Producer of the materials
Company / Name B + K
Site Address: NOMA PROJECT

B Description of the materials
How are materials contained? 1X8W
Describe materials being transferred SPOIL
Quantity _____

C Carrier of the materials
Drivers Name CORBELL
Vehicle Reg PO17 UGL

D Disposer of the materials
Company Name CHARTRANGE
Disposal Address TIP
Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work:	Hours Worked:	Travel Time:	Total Hours:
_____	_____	_____	_____

No. of Loads: 1

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.

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

DUTY OF CARE / TRANSFER/HIRE SHEET

Licence No.: _____

Date: 18/11/21 No: 19475

A Producer of the materials	Company / Name BOWMER Site Address: KIRKLAND NOMA
B Description of the materials	How are materials contained? SPOIL Describe materials being transferred ~~HARDCORE~~ SPOIL Quantity 8W
C Carrier of the materials	Drivers Name BRIAN Vehicle Reg PO17UGL
D Disposer of the materials	Company Name DUKINFIELD Disposal Address _____ Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work: _____ Hours Worked: _____ Travel Time: _____ Total Hours: _____

No. of Loads: 1

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: 18-11-21 No: 19351

A Producer of the materials	Company / Name ~~BOWMER~~ Site Address: NOMA, PLOT BOWMER KIRKLAND
B Description of the materials	How are materials contained? SPOIL Describe materials being transferred ~~HARDCORE~~ SPOIL Quantity 1X8W
C Carrier of the materials	Drivers Name TONY Vehicle Reg PJ17VNX
D Disposer of the materials	Company Name CHARTRANGE Disposal Address TIP Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work: _____ Hours 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: 18/10 No: 2741

A Producer of the materials	Company / Name Bowman Kirkland Site Address: NOMA
B Description of the materials	How are materials contained? Spoil Describe materials being transferred _____ Quantity 1x8w
C Carrier of the materials	Drivers Name Lee Vehicle Reg PJ17VNY
D Disposer of the materials	Company Name TIP Disposal Address _____ Licence No. _____

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

MINIMUM HIRE 9 HOURS

Day Work: _____ Hours 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.

Based across the UK with offices in Manchester, London, Liverpool and Glasgow.

Manchester (Head Office)
Unit 29,
Eton Business Park
Eton Hill Rd, Radcliffe
M26 2ZS

t: 0161 763 7200
e: info@thelkgroup.com

London
Brooklands Business Park
Wellington Way
Weybridge
KT13 0TT

t: 01932 871872
e: info@thelkgroup.com

Glasgow
Wright Business Centre
1 Lonmay Road
Glasgow
G33 4EL

t: 0141 773 6269
e: info@thelkgroup.com

Liverpool
The Corn Exchange
Fenwick Street
Liverpool
L2 7QL

t: 0151 235 8716
e: info@thelkgroup.com

Swindon
39 Bowman House Business Centre
Bowman Court
Whitehill Lane
Royal Wootton Bassett
Swindon
SN4 7DB

t : 01793 987 390
e : info@thelkgroup.com

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