

LKC SITE DIARY			
Project No.:	LKC 23 1691	LKC Engineer:	RP
Site Name:	Osbornes Yard, Manchester	Date:	17 th January 2024
Client:	Heatley Developments Ltd	Time on site:	09.00
Contractor:	-	Time off site:	16.00
Plant:	Tracked excavators	Weather:	Dry, cold.
Purpose of Visit:	Delineation and removal of any volatile contamination associated with former fuel tanks.		
Main activities:			
➤ Continuation of trial trench in Area 2 in southern side (Side B) and eastern side (Side C). ➤ Continual backfill of Area 2 delineation with granular fill.			
Contamination Encountered:			
➤ Black staining to the buried concrete slabs.			
No. of soil samples taken:	3no. validation samples, Side B2, Side B2, Side C1, Side C2.	Laboratory testing:	1no. TPH CWG, BTEX, MTBE, SOM.
			
Photograph 1: Excavation and removal of HC contaminated material to the southern side of Area 2. Validation sample B2.		Photograph 2: Excavation and removal of HC contaminated material to the southern side of Area 2. Validation sample B3.	
			
Photograph 3: Relict wall and concrete at the base of the easter side of Area 2 excavation at approximately 1.9mbgl.		Photograph 4: Clay at the eastern part of Area 2 excavation appeared clean.	



Photograph 5: View of extent of excavation area of Area 2 so far, rear of the photo has already been backfilled for safety.



Photograph 6: Hydrocarbon staining on the concrete slab in the northern side of Area 2.

LKC SITE DIARY			
Project No.:	LKC 23 1691	LKC Engineer:	RP
Site Name:	Osbornes Yard, Manchester	Date:	18 th January 2024
Client:	Heatley Developments Ltd	Time on site:	09.00
Contractor:	-	Time off site:	16.00
Plant:	Tracked excavators	Weather:	Dry, cold, clear.
Purpose of Visit:	Delineation and removal of any volatile contamination associated with former fuel tanks.		
Main activities:			
➤ Continuation of trial trench in Area 2 (northern side / Side D). ➤ Continual backfill of Area 2 delineation with granular fill.			
Contamination Encountered:			
➤ Black staining to the buried concrete slabs.			
No. of soil samples taken:	3no. validation samples, Side D1, Side D2, Side D3, Side D4, Side A2.	Laboratory testing:	3no. TPH CWG, BTEX, MTBE, SOM.
			
Photograph 1: Removal of concrete slab where previous day identified hydrocarbon staining on the concrete slab in the northern side of Area 2. Clay clay beneath slab at 2.8m.		Photograph 2: View of excavations and subsequent backfilling.	
			
Photograph 3: Relict concrete at the base of the north western side of Area 2 excavation at approximately 3.5mbgl.		Photograph 4: Clay at the north western part of Area 2 excavation appeared clean at the base and sides.	



Photograph 5: View of stockpile of contaminated material excavated from Area 2.



Photograph 6: View of stockpile of contaminated material excavated from Areas 1 and 2.

Appendix C – Certificates of Analysis (Soil)



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Derwentside Environmental Testing Services Ltd
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Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 24-00404

Site Reference: Osborne's Yard

Project / Job Ref: LKC 23 1691

Order No: LKC231691-RP

Sample Receipt Date: 15/01/2024

Sample Scheduled Date: 15/01/2024

Report Issue Number: 2

Reporting Date: 25/01/2024

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.
This report supersedes 24-00404, issue no.1.

Reason for Re-Issue:
Split Reports

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Soil Analysis Certificate						
DETS Report No: 24-00404	Date Sampled	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Osborne's Yard	TP / BH No	B1	Side 1	Side 2	Side 3	Side 4
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: LKC231691-RP	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 25/01/2024	DETS Sample No	694349	694350	694351	694352	694353

Determinand	Unit	RL	Accreditation					
Organic Matter (SOM)	%	< 0.1	MCERTS	2.4	2.5	12.6	16.3	6.2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 24-00404	Date Sampled	11/01/24				
LK Consult Limited	Time Sampled	None Supplied				
Site Reference: Osborne's Yard	TP / BH No	Side A				
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied				
Order No: LKC231691-RP	Depth (m)	None Supplied				
Reporting Date: 25/01/2024	DETS Sample No	694355				

Determinand	Unit	RL	Accreditation				
Organic Matter (SOM)	%	< 0.1	MCERTS	7.4			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-00404	Date Sampled	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Osborne's Yard	TP / BH No	B1	Side 1	Side 2	Side 3	Side 4
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: LKC231691-RP	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 25/01/2024	DETS Sample No	694349	694350	694351	694352	694353

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	3	3	3
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	4	10	3
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	14	34	4
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	8	24	< 3
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	< 10	< 10	12	< 10
Aliphatic >C34 - C44 : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	29	82	< 21
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	29	82	< 21
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	3	< 2
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	9	18	5
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3	< 3	19	29	8
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10	12	13	< 10
Aromatic >C35 - C44 : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	41	64	< 21
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	41	64	< 21
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42	< 42	70	146	< 42
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42	< 42	70	146	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-00404	Date Sampled	11/01/24				
LK Consult Limited	Time Sampled	None Supplied				
Site Reference: Osborne's Yard	TP / BH No	Side A				
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied				
Order No: LKC231691-RP	Depth (m)	None Supplied				
Reporting Date: 25/01/2024	DETS Sample No	694355				

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01			
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05			
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	3			
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	4			
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	9			
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	3			
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10			
Aliphatic >C34 - C44 : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 10	NONE	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21			
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21			
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01			
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	0.13			
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	3			
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	4			
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	28			
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	77			
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	50			
Aromatic >C35 - C44 : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 10	NONE	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	162			
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	162			
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	181			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	181			



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-00404	Date Sampled	11/01/24	11/01/24	11/01/24	11/01/24	11/01/24
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Osborne's Yard	TP / BH No	B1	Side 1	Side 2	Side 3	Side 4
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: LKC231691-RP	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 25/01/2024	DETS Sample No	694349	694350	694351	694352	694353

Determinand	Unit	RL	Accreditation						
Benzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
Toluene : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene : HS 1D MS	ug/kg	< 2	MCERTS	8	6	6	10	12	12
p & m-xylene : HS 1D MS	ug/kg	< 2	MCERTS	8	6	8	11	18	18
o-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
MTBE : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-00404	Date Sampled	11/01/24				
LK Consult Limited	Time Sampled	None Supplied				
Site Reference: Osborne's Yard	TP / BH No	Side A				
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied				
Order No: LKC231691-RP	Depth (m)	None Supplied				
Reporting Date: 25/01/2024	DETS Sample No	694355				

Determinand	Unit	RL	Accreditation				
Benzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2			
Toluene : HS 1D MS	ug/kg	< 5	MCERTS	126			
Ethylbenzene : HS 1D MS	ug/kg	< 2	MCERTS	118			
p & m-xylene : HS 1D MS	ug/kg	< 2	MCERTS	491			
o-xylene : HS 1D MS	ug/kg	< 2	MCERTS	198			
MTBE : HS 1D MS	ug/kg	< 5	MCERTS	< 5			



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 24-00404	
LK Consult Limited	
Site Reference: Osborne's Yard	
Project / Job Ref: LKC 23 1691	
Order No: LKC231691-RP	
Reporting Date: 25/01/2024	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
694349	B1	None Supplied	None Supplied	15.7	Light brown clay
694350	Side 1	None Supplied	None Supplied	16.1	Light brown clay
694351	Side 2	None Supplied	None Supplied	20.1	Black sandy clay with brick
694352	Side 3	None Supplied	None Supplied	18.3	Brown sandy clay with stones
694353	Side 4	None Supplied	None Supplied	16.2	Brown sandy clay
694355	Side A	None Supplied	None Supplied	15.3	Brown sandy clay with stones and concrete

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-00404

LK Consult Limited

Site Reference: Osborne's Yard

Project / Job Ref: LKC 23 1691

Order No: LKC231691-RP

Reporting Date: 25/01/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators

DETS Report No: 24-00404

LK Consult Limited

Site Reference: Osborne's Yard

Project / Job Ref: LKC 23 1691

Order No: LKC231691-RP

Reporting Date: 25/01/2024

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym

Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
TPH CWG - Total >C5 - C44 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



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DETS Report No: 24-00554

Site Reference: Osbournes Yard

Project / Job Ref: LKC 23 1691

Order No: LKC231691-RP

Sample Receipt Date: 22/01/2024

Sample Scheduled Date: 22/01/2024

Report Issue Number: 1

Reporting Date: 25/01/2024

Authorised by:



Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 24-00554	Date Sampled	15/01/24	15/01/24	16/01/24	17/01/24	17/01/24
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Osbournes Yard	TP / BH No	Base 2	Side B1	Base 3	Side B3	Side C1
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: LKC231691-RP	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 25/01/2024	DETS Sample No	694971	694972	694973	694974	694975

Determinand	Unit	RL	Accreditation	(n)		
Organic Matter (SOM)	%	< 0.1	MCERTS	2	8.1	2.1
					2.2	1.7

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-00554	Date Sampled	15/01/24	15/01/24	16/01/24	17/01/24	17/01/24
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Osbournes Yard	TP / BH No	Base 2	Side B1	Base 3	Side B3	Side C1
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: LKC231691-RP	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 25/01/2024	DETS Sample No	694971	694972	694973	694974	694975

Determinand	Unit	RL	Accreditation	(n)					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	0.11	0.09	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic >C34 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21	< 21
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	0.06	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	7	< 2	4	< 2	< 2
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	3	< 2	< 2	< 2	< 2
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3	< 3	< 3	39	< 3	< 3
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10	< 10	26	< 10	< 10
Aromatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	< 21	68	< 21	< 21
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	< 21	68	< 21	< 21
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42	< 42	< 42	68	< 42	< 42
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42	< 42	< 42	68	< 42	< 42

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



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-00554	Date Sampled	15/01/24	15/01/24	16/01/24	17/01/24	17/01/24
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Osbournes Yard	TP / BH No	Base 2	Side B1	Base 3	Side B3	Side C1
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: LKC231691-RP	Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Reporting Date: 25/01/2024	DETS Sample No	694971	694972	694973	694974	694975

Determinand	Unit	RL	Accreditation	(n)			
Benzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2	60	< 2
Toluene : HS_1D_MS	ug/kg	< 5	MCERTS	< 5	32	24	< 5
Ethylbenzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	23	< 2	< 2
p & m-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	98	5	< 2
o-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	43	< 2	< 2
MTBE : HS_1D_MS	ug/kg	< 5	MCERTS	< 5	114	95	< 5

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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 24-00554	
LK Consult Limited	
Site Reference: Osbournes Yard	
Project / Job Ref: LKC 23 1691	
Order No: LKC231691-RP	
Reporting Date: 25/01/2024	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
694971	Base 2	None Supplied	None Supplied	14.3	Brown clay
694972	Side B1	None Supplied	None Supplied	16.4	Brown sandy clay with stones and brick
694973	Base 3	None Supplied	None Supplied	14.8	Brown clay
694974	Side B3	None Supplied	None Supplied	20.1	Brown sandy gravel with stones and concrete
694975	Side C1	None Supplied	None Supplied	14.2	Grey clay

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/5}

Unsuitable Sample ^{u/s}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-00554

LK Consult Limited

Site Reference: Osbournes Yard

Project / Job Ref: LKC 23 1691

Order No: LKC231691-RP

Reporting Date: 25/01/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators	
DETS Report No: 24-00554	
LK Consult Limited	
Site Reference: Osbournes Yard	
Project / Job Ref: LKC 23 1691	
Order No: LKC231691-RP	
Reporting Date: 25/01/2024	

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
TPH CWG - Total >C5 - C44 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS



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DETS Report No: 24-00642

Site Reference: Osborne's Yard

Project / Job Ref: LKC 23 1691

Order No: LKC231691-RP

Sample Receipt Date: 23/01/2024

Sample Scheduled Date: 23/01/2024

Report Issue Number: 1

Reporting Date: 26/01/2024

Authorised by:



Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 24-00642	Date Sampled	18/01/24	18/01/24	18/01/24		
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Osborne's Yard	TP / BH No	Side D2	Side D4	Side A2		
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: LKC231691-RP	Depth (m)	3.00	None Supplied	3.00 - 3.50		
Reporting Date: 26/01/2024	DETS Sample No	695315	695316	695317		

Determinand	Unit	RL	Accreditation			
Organic Matter (SOM)	%	< 0.1	MCERTS	2.1	2	1.8

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 24-00642	Date Sampled	18/01/24	18/01/24	18/01/24		
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Osborne's Yard	TP / BH No	Side D2	Side D4	Side A2		
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: LKC231691-RP	Depth (m)	3.00	None Supplied	3.00 - 3.50		
Reporting Date: 26/01/2024	DETS Sample No	695315	695316	695317		

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01		
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05		
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3		
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3	< 3		
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	< 10	< 10		
Aliphatic >C34 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10		
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	< 21		
Aliphatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21	< 21		
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01		
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05		
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2		
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3	< 3	< 3		
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10	< 10		
Aromatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10		
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	< 21		
Aromatic (C5 - C44) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21	< 21		
Total >C5 - C44 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42	< 42	< 42		
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42	< 42	< 42		



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-00642	Date Sampled	18/01/24	18/01/24	18/01/24		
LK Consult Limited	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: Osborne's Yard	TP / BH No	Side D2	Side D4	Side A2		
Project / Job Ref: LKC 23 1691	Additional Refs	None Supplied	None Supplied	None Supplied		
Order No: LKC231691-RP	Depth (m)	3.00	None Supplied	3.00 - 3.50		
Reporting Date: 26/01/2024	DETS Sample No	695315	695316	695317		

Determinand	Unit	RL	Accreditation					
Benzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2		
Toluene : HS_1D_MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5		
Ethylbenzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2		
p & m-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2		
o-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2	< 2	< 2		
MTBE : HS_1D_MS	ug/kg	< 5	MCERTS	< 5	< 5	< 5		



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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 24-00642	
LK Consult Limited	
Site Reference: Osborne's Yard	
Project / Job Ref: LKC 23 1691	
Order No: LKC231691-RP	
Reporting Date: 26/01/2024	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
695315	Side D2	None Supplied	3.00	14.7	Grey clay
695316	Side D4	None Supplied	None Supplied	14.2	Grey clay
695317	Side A2	None Supplied	3.00 - 3.50	13.3	Grey clay

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{1/5}

Unsuitable Sample ^{1/5}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 24-00642

LK Consult Limited

Site Reference: Osborne's Yard

Project / Job Ref: LKC 23 1691

Order No: LKC231691-RP

Reporting Date: 26/01/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators

DETS Report No: 24-00642

LK Consult Limited

Site Reference: Osborne's Yard

Project / Job Ref: LKC 23 1691

Order No: LKC231691-RP

Reporting Date: 26/01/2024

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym

Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C44 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
TPH CWG - Total >C5 - C44 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS

Appendix D – Generic Assessment Criteria Values

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	Source
Metals	Inorganic Arsenic	N/A	37	40	49	640	79	168	DEFRA C4SL
	Beryllium	N/A	1.7	1.7	35	12	2.2	63	LQM S4UL
	Boron	N/A	290	11,000	45	240,000	21,000	46,000	LQM S4UL
	Cadmium	N/A	26	149	4.9	410	220	880	DEFRA C4SL
	Chromium (III)	N/A	910	910	18,000	8,600	1,500	33,000	LQM S4UL
	Chromium (VI)	N/A	21.0	21.0	170.0	49	23.0	250	DEFRA C4SL
	Copper	N/A	2,400	7,100	520	68,000	12,000	44,000	LQM S4UL
	Lead	N/A	200	310	80	2,330	630	1,300	DEFRA C4SL
	Elemental Mercury	N/A	1.2	1.2	21	58 (25.8) ^{vap}	16	30 (25.8) ^{vap}	LQM S4UL
	Inorganic Mercury	N/A	40	56	19	1,100	120	240	LQM S4UL
	Methylmercury	N/A	11	15	6.0	320	40	68	LQM S4UL
	Nickel	N/A	130	180	53	980	230	800	LQM S4UL
	Selenium	N/A	250	430	88	12,000	1,100	1,800	LQM S4UL
Polycyclic Aromatic Hydrocarbons (PAHs)	Vanadium	N/A	410	1,200	91	9,000	2,000	5,000	LQM S4UL
	Zinc	N/A	3,700	40,000	620	730,000	81,000	170,000	LQM S4UL
	Acenaphthene	1%	210	3,000 (57.1) ^{sol}	34	84,000 (57.0) ^{sol}	15,000	29,000	LQM S4UL
		2.5%	510	4,700 (141) ^{sol}	85	97,000 (141) ^{sol}	15,000	30,000	LQM S4UL
		6%	1,100	6,000 (336) ^{sol}	200	100,000	15,000	30,000	LQM S4UL
	Acenaphthylene	1%	170	2,900 (86.1) ^{sol}	28	83,000 (86.1) ^{sol}	15,000	29,000	LQM S4UL
		2.5%	420	4,600 (212) ^{sol}	69	97,000 (212) ^{sol}	15,000	30,000	LQM S4UL
		6%	920	6,000 (506) ^{sol}	160	100,000	15,000	30,000	LQM S4UL
	Anthracene	1%	2,400	31,000 (1.17) ^{vap}	380	520,000	74,000	150,000	LQM S4UL
		2.5%	5,400	35,000	950	540,000	74,000	150,000	LQM S4UL
		6%	11,000	37,000	2,200	540,000	74,000	150,000	LQM S4UL
	Benz(a)anthracene	1%	7.2	11	2.9	170	29	49	LQM S4UL
		2.5%	11	14	6.5	170	29	56	LQM S4UL
		6%	13	15	13	180	29	62	LQM S4UL
	Benzo(a)pyrene (only)	1%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
		2.5%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
		6%	5.0	5.3	5.70	77	10.0	21	DEFRA C4SL
	Benzo(a)pyrene (surrogate marker Coal Tar)	1%	0.8	1.2	0.32	15	2.2	4	LQM S4UL
		2.5%	1.0	1.2	0.67	15	2.2	5	LQM S4UL
		6%	1.1	1.2	1.20	15	2.2	5	LQM S4UL
	Benzo(b)fluoranthene	1%	2.6	3.9	0.99	44	7.1	13	LQM S4UL
		2.5%	3.3	4.0	2.1	44	7.2	15	LQM S4UL
		6%	3.7	4.0	3.9	45	7.2	16	LQM S4UL
	Benzo(ghi)perylene	1%	320	360	290	3,900	640	1,400	LQM S4UL
		2.5%	340	360	470	4,000	640	1,500	LQM S4UL
		6%	350	360	640	4,000	640	1,600	LQM S4UL
	Benzo(k)fluoranthene	1%	77	110	37	1,200	190	370	LQM S4UL
		2.5%	93	110	75	1,200	190	410	LQM S4UL
		6%	100	110	130	1,200	190	440	LQM S4UL
	Chrysene	1%	15	30	4.1	350	57	93	LQM S4UL
		2.5%	22	31	9.4	350	57	110	LQM S4UL
		6%	27	32	19	350	57	120	LQM S4UL
	Dibenzo(ah)anthracene	1%	0.24	0.31	0.14	3.5	0.57	1.1	LQM S4UL
		2.5%	0.28	0.32	0.27	3.6	0.58	1.3	LQM S4UL
		6%	0.3	0.32	0.43	3.6	0.58	1.4	LQM S4UL
	Fluoranthene	1%	280	1,500	52	23,000	3,100	6,300	LQM S4UL
		2.5%	560	1,600	130	23,000	3,100	6,300	LQM S4UL
		6%	890	1,600	290	23,000	3,100	6,400	LQM S4UL
	Fluorene	1%	170	2,800 (36.0) ^{sol}	27	63,000 (30.9) ^{sol}	9,900	20,000	LQM S4UL
		2.5%	400	3,800 (76.5) ^{sol}	67	68,000	9,900	20,000	LQM S4UL
		6%	860	4,500 (183) ^{sol}	160	71,000	9,900	20,000	LQM S4UL
	Indeno(123-cd)pyrene	1%	27	45	9.5	500	82	150	LQM S4UL
		2.5%	36	46	21	510	82	170	LQM S4UL
		6%	41	46	39	510	82	180	LQM S4UL
	Naphthalene	1%	15	15	65	1600 f	11000 f	800 f	C4SL
		2.5%	36	36	130	3700 f	15000 f	1200 f	C4SL
		6%	85	85	200	8400 f	17000 f	1900 f	C4SL
	Phenanthrene	1%	95	1,300 (36.0) ^{sol}	15	22,000	3,100	6,200	LQM S4UL
		2.5%	220	1,500	38	22,000	3,100	6,200	LQM S4UL
		6%	440	1,500	90	22,000	3,100	6,300	LQM S4UL
	Pyrene	1%	620	3,700	110	54,000	7,400	15,000	LQM S4UL
		2.5%	1,200	3,800	270	54,000	7,400	15,000	LQM S4UL
		6%	2,000	3,800	620	54,000	7,400	15,000	LQM S4UL
	Coal Tar (B(a)P as surrogate marker)	1%	0.79	1.2	0.32	15	2.2	4.4	LQM S4UL
		2.5%	0.98	1.2	0.67	15	2.2	4.7	LQM S4UL
		6%	1.1	1.2	1.2	15	2.2	4.8	LQM S4UL

Generic Assessment Criteria Values

	Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	Source
BTEx Compounds	Benzene	1%	0.087	0.38	0.017	27	72	90	LQM S4UL
		2.5%	0.17	0.70	0.034	47	72	100	LQM S4UL
		6%	0.37	1.4	0.075	90	73	110	LQM S4UL
		6%	0.87	3.3	0.180	98	140	230	C4SL
	Toluene	1%	130	880 (869) ^{vap}	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}	LQM S4UL
		2.5%	290	1,900	51	110,000 (1,920) ^{vap}	56,000	95,000 (1,920) ^{vap}	LQM S4UL
		6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}	LQM S4UL
	Ethylbenzene	1%	47	83	16	5,700 (518) ^{vap}	24,000	17,000 (518) ^{vap}	LQM S4UL
		2.5%	110	190	39	13,000 (1,220) ^{vap}	24,000	22,000 (1,220) ^{vap}	LQM S4UL
		6%	260	440	91	27,000 (2,840) ^{vap}	25,000	27,000 (2,840) ^{vap}	LQM S4UL
	o-xylene	1%	60	88	28	6,600 (478) ^{sol}	41,000	17,000 (478) ^{sol}	LQM S4UL
		2.5%	140	210	67	15,000 (1,120) ^{sol}	42,000	24,000 (1,120) ^{sol}	LQM S4UL
		6%	330	480	160	33,000 (2,620) ^{sol}	43,000	33,000 (2,620) ^{sol}	LQM S4UL
	m-xylene	1%	59	82	31	6,200 (625) ^{vap}	41,000	17,000 (625) ^{vap}	LQM S4UL
		2.5%	140	190	74	14,000 (1,470) ^{vap}	42,000	24,000 (1,470) ^{vap}	LQM S4UL
		6%	320	450	170	31,000 (3,460) ^{vap}	43,000	32,000 (3,460) ^{vap}	LQM S4UL
	p-xylene	1%	56	79	29	5,900 (576) ^{sol}	41,000	17,000 (576) ^{sol}	LQM S4UL
		2.5%	130	180	69	14,000 (1,350) ^{sol}	42,000	23,000 (1,350) ^{sol}	LQM S4UL
		6%	310	430	160	30,000 (3,170) ^{sol}	43,000	31,000 (3,170) ^{sol}	LQM S4UL
Petroleum Hydrocarbons	Aliphatic								
	EC 5-6	1%	42	42	730	3,200 (304) ^{sol}	570,000(304) ^{sol}	95,000 (304) ^{sol}	LQM S4UL
	EC>6-8	1%	100	100	2,300	7,800 (144) ^{sol}	600,000	150,000 (144) ^{sol}	LQM S4UL
	EC>8-10	1%	27	27	320	2,000 (78) ^{sol}	13,000	14,000 (78) ^{vap}	LQM S4UL
	EC>10-12	1%	130 (48) ^{vap}	130 (48) ^{vap}	2,200	9,700 (48) ^{sol}	13,000	21,000 (48) ^{vap}	LQM S4UL
	EC>12-16	1%	1,100 (24) ^{sol}	1,100 (24) ^{sol}	11,000	59,000 (24) ^{sol}	13,000	25,000 (24) ^{sol}	LQM S4UL
	EC>16-35	1%	65,000 (8.48)	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f	LQM S4UL
	EC>35-44	1%	65,000 (8.48)	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f	LQM S4UL
	Aliphatic								
	EC 5-6	2.5%	78	78	1,700	5,900 (558) ^{sol}	590,000	130,000 (558) ^{sol}	LQM S4UL
	EC>6-8	2.5%	230	230	5,600	17,000 (322) ^{sol}	610,000	220,000 (322) ^{sol}	LQM S4UL
	EC>8-10	2.5%	65	65	770	4,800 (190) ^{vap}	13,000	18,000 (190) ^{vap}	LQM S4UL
	EC>10-12	2.5%	330 (118) ^{vap}	330 (118) ^{vap}	4,400	23,000 (118) ^{vap}	13,000	23,000 (118) ^{vap}	LQM S4UL
	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}	LQM S4UL
	EC>16-35	2.5%	92,000 (21)	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f	LQM S4UL
	EC>35-44	2.5%	92,000 (21)	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f	LQM S4UL
	Aliphatic								
	EC 5-6	6%	160	160	3,900	12,000 (1,150) ^{sol}	600,000	180,000 (1,150) ^{sol}	LQM S4UL
	EC>6-8	6%	530	530	13,000	40,000 (736) ^{sol}	620,000	320,000 (736) ^{sol}	LQM S4UL
	EC>8-10	6%	150	150	1,700	11,000 (451) ^{vap}	13,000	21,000 (451) ^{vap}	LQM S4UL
	EC>10-12	6%	760 (283) ^{vap}	760 (283) ^{vap}	7,300	47,000 (283) ^{vap}	13,000	24,000 (283) ^{vap}	LQM S4UL
	EC>12-16	6%	4,300 (142) ^{sol}	4,400 (142) ^{sol}	13,000	90,000 (142) ^{sol}	13,000	26,000 (142) ^{sol}	LQM S4UL
	EC>16-35	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f	LQM S4UL
	EC>35-44	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	1%	70	370	13	26,000 (1,220) ^{sol}	56,000	76,000 (1,220) ^{sol}	LQM S4UL
	EC>7-8(toluene)	1%	130	860	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}	LQM S4UL
	EC>8-10	1%	34	47	8.6	3,500 (613) ^{vap}	5,000	7,200 (613) ^{vap}	LQM S4UL
	EC>10-12	1%	74	250	13	16,000 (364) ^{sol}	5,000	9,200 (364) ^{sol}	LQM S4UL
	EC>12-16	1%	140	1,800	23	36,000 (169) ^{sol}	5,100	10,000	LQM S4UL
	EC>16-21	1%	260 ^f	1,900 ^f	46 ^f	28,000 ^f	3,800 ^f	7,600 ^f	LQM S4UL
	EC>21-35	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	EC>35-44	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	2.5%	140	690	27	46,000 (2,260) ^{sol}	56,000	84,000 (2,260) ^{sol}	LQM S4UL
	EC>7-8(toluene)	2.5%	290	1,800	51	110,000 (1,920) ^{sol}	56,000	95,000 (1,920) ^{sol}	LQM S4UL
	EC>8-10	2.5%	83	110	21	8,100 (1,500) ^{vap}	5,000	8,500 (1,500) ^{vap}	LQM S4UL
	EC>10-12	2.5%	180	590	31	28,000 (899) ^{sol}	5,000	9,700 (899) ^{sol}	LQM S4UL
	EC>12-16	2.5%	330	2,300 (419) ^{sol}	57	37,000	5,100	10,000	LQM S4UL
	EC>16-21	2.5%	540 ^f	1,900 ^f	110 ^f	28,000 ^f	3,800 ^f	7,700 ^f	LQM S4UL
	EC>21-35	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	EC>35-44	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	Aromatic								
	EC5-7(benzene as non-	6%	300	1,400	57	86,000 (4,710) ^{sol}	56,000	92,000 (4,710) ^{sol}	LQM S4UL
	EC>7-8(toluene)	6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}	LQM S4UL
	EC>8-10	6%	190	270	51	17,000 (3,580) ^{vap}	5,000	9,300 (3,580) ^{vap}	LQM S4UL
	EC>10-12	6%	380	1,200	4	34,000 (2,150) ^{sol}	5,000	10,000	LQM S4UL
	EC>12-16	6%	660	2,500	130	38,000	5,100	10,000	LQM S4UL
	EC>16-21	6%	930 ^f	1,900 ^f	260 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
	EC>21-35	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL
	EC>35-44	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL
	Aliphatic +Aromatic >EC44	1%	1,600 ^f	1,900 ^f	1,200 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
		2.5%	1,800 ^f	1,900 ^f	2,100 ^f	28,000 ^f	3,800 ^f	7,800 ^f	LQM S4UL
		6%	1,900 ^f	1,900 ^f	3,000 ^f	28,000 ^f	3,800 ^f	7,900 ^f	LQM S4UL

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	Source
Chloalkanes and Alkenes & Explosives	1,2 Dichloroethane (DCA)	1%	0.11	0.16	0.05	12.0	300	300	DEFRA C4SL
		2.5%	0.18	0.24	0.10	17.0	310	330	DEFRA C4SL
		6%	0.31	0.41	0.19	29.0	310	330	DEFRA C4SL
	1,1,1 Trichloroethane (TCA)	1%	8.8	9.0	48	660	140,000	57,000 (1,425) ^{vap}	LQM S4UL
		2.5%	18	18	110	1,300	140,000	76,000 (2,915) ^{vap}	LQM S4UL
		6%	39	40	240	3,000	140,000	100,000 (6,392)	LQM S4UL
	1,1,2,2-Tetrachloroethanes (PCA)	1%	1.6	3.9	0.41	270	1,400	1,800	LQM S4UL
		2.5%	3.4	8.0	0.89	550	1,400	2,100	LQM S4UL
		6%	7.5	17	2.0	1,100	1,400	2,300	LQM S4UL
	1,1,1,2-Tetrachloroethanes (PCA)	1%	1.2	1.5	0.79	110	1,400	1,500	LQM S4UL
		2.5%	2.8	3.5	1.9	250	1,400	1,800	LQM S4UL
		6%	6.4	8.2	4.4	560	1,400	2,100	LQM S4UL
	Tetrachloroethene (PCE)	1%	0.31	0.32	2.00	24	3,200	1400	DEFRA C4SL
		2.5%	0.70	0.71	4.8	55	3,300	1900	DEFRA C4SL
		6%	1.60	1.60	11.0	130	3,400	2,500	DEFRA C4SL
	Tetrachloromethane (carbon tetrachloride)	1%	0.03	0.03	0.45	2.9	890	190	LQM S4UL
		2.5%	0.06	0.06	1.0	6.3	920	270	LQM S4UL
		6%	0.13	0.13	2.4	14	950	400	LQM S4UL
	Trichloroethene (TCE)	1%	0.009	0.010	0.032	0.7	76.0	41.0	DEFRA C4SL
		2.5%	0.020	0.020	0.072	1.5	78.0	51.0	DEFRA C4SL
		6%	0.043	0.045	0.160	3.4	79.0	69.0	DEFRA C4SL
	cis 1,2-dichloroethene	1%	0.46	0.50	0.890	38	3,800	2,000	DEFRA C4SL
		2.5%	0.78	0.84	1.70	64	3,800	2,400	DEFRA C4SL
		6%	1.50	1.60	3.60	120	3,900	3,100	DEFRA C4SL
	Trichloromethane (chloroform)	1%	0.91	1.2	0.42	99	2,500	2,600	LQM S4UL
		2.5%	1.7	2.1	0.83	170	2,500	2,800	LQM S4UL
		6%	3.4	4.2	1.7	350	2,500	3,100	LQM S4UL
	Trans-1,2 Dichloroethene	1%	0.9	0.9	3.7	69	13,000	5,600	DEFRA C4SL
		2.5%	1.6	1.7	7.5	120	13,000	7,000	DEFRA C4SL
		6%	3.3	3.4	16.0	260	13,000	9,100	DEFRA C4SL
	Chloroethene (vinyl chloride)	1%	0.006	0.015	0.0017	1.1E+00	7.8	18.0	DEFRA C4SL
		2.5%	0.010	0.019	0.0031	1.4E+00	7.8	19.0	DEFRA C4SL
		6%	0.017	0.029	0.0058	2.20	7.8	19.0	DEFRA C4SL
	2,4,6-Trinitrotoluene (TNT)	1%	1.6	65	0.24	1,000	130	260	LQM S4UL
		2.5%	3.7	66	0.58	1,000	130	270	LQM S4UL
		6%	8.1	66	1.4	1,000	130	270	LQM S4UL
	RDX	1%	120	13,000	17	210,000	26,000	49,000 (18.7) ^{sol}	LQM S4UL
		2.5%	250	13,000	38	210,000	26,000	51,000	LQM S4UL
		6%	540	13,000	85	210,000	27,000	53,000	LQM S4UL
	HMX	1%	5.7	6,700	0.86	110,000	13,000	23,000 (0.35) ^{vap}	LQM S4UL
		2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) ^{vap}	LQM S4UL
		6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) ^{vap}	LQM S4UL
Pesticides	Aldrin	1%	5.7	7.3	3.2	170	18	30	LQM S4UL
		2.5%	6.6	7.4	6.1	170	18	31	LQM S4UL
		6%	7.1	7.5	9.8	170	18	31	LQM S4UL
	Dieldrin	1%	0.97	7.0	0.17	170	18	30	LQM S4UL
		2.5%	2.0	7.3	0.41	170	18	30	LQM S4UL
		6%	3.5	7.4	0.96	170	18	31	LQM S4UL
	Atrazine	1%	3.3	610	0.5	9,300	1,200	2,300	LQM S4UL
		2.5%	7.8	620	1.2	9,400	1,200	2,400	LQM S4UL
		6%	17.4	620	2.7	9,400	1,200	2,400	LQM S4UL
	Dichlorvos	1%	3.2E-02	6.4	4.9E-03	140	16	26	LQM S4UL
		2.5%	6.6E-02	6.5	1.0E-02	140	16	26	LQM S4UL
		6%	0.14	6.6	2.2E-02	140	16	27	LQM S4UL
	Endosulfanns (2 isomers)	1%	7.4	160 (3.0E-03) ^{vap}	1.2	5,600 (3.0E-03) ^{vap}	1,200	2,300	LQM S4UL
		2.5%	18	280 (7.0E-03) ^{vap}	2.9	7,400 (7.0E-03) ^{vap}	1,200	2,400	LQM S4UL
		6%	41	410 (1.6E-02) ^{vap}	6.8	8,400 (1.6E-02) ^{vap}	1,200	2,500	LQM S4UL
	Hexachlorocyclohexane (3 isomers), inc Lindane	1%	8.5E-02	3.7	1.3E-02	65	8.1	15	LQM S4UL
		2.5%	0.2	3.8	3.2E-02	65	8.1	15	LQM S4UL
		6%	0.46	3.8	7.7E-02	65	8.1	16	LQM S4UL
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) ^{sol}	LQM S4UL
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) ^{sol}	LQM S4UL
		6%	2.4	2.4	32	290	14,000	2,900	LQM S4UL
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) ^{sol}	90,000	24,000 (571) ^{sol}	LQM S4UL
		2.5%	55	57	230	4,800 (1,370) ^{sol}	95,000	36,000 (1,370) ^{sol}	LQM S4UL
		6%	130	130	540	11,000 (3,240) ^{sol}	98,000	51,000 (3,270) ^{sol}	LQM S4UL
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) ^{vap}	LQM S4UL
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) ^{vap}	LQM S4UL
		6%	15	15	320	1,300	19,000	4,000 (1,880) ^{vap}	LQM S4UL
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) ^{vap}	78	110 (39) ^{vap}	LQM S4UL
		2.5%	1.6	1.9	0.90	120 (98.1) ^{vap}	79	120	LQM S4UL
		6%	3.7	4.3	2.2	240 (235) ^{vap}	79	130	LQM S4UL
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) ^{sol}	100	190	LQM S4UL
		2.5%	12	30	3.1	770 (107) ^{sol}	100	190	LQM S4UL
		6%	22	38	7.0	830	100	190	LQM S4UL
	Hexachlorobenzene	1%	1.8 (0.20) ^{vap}	4.1 (0.20) ^{vap}	0.47	110 (0.20) ^{vap}	16	30	LQM S4UL
		2.5%	3.3 (0.50) ^{vap}	5.7 (0.50) ^{vap}	1.1	120	16	30	LQM S4UL
		6%	4.9	6.7 (1.2) ^{vap}	2.5	120	16	30	LQM S4UL

Generic Assessment Criteria Values

Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	Source
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 ^g	94	0.13 ^g	3,500	620	1,100	LQM S4UL
		2.5%	2.0	150	0.30	4,000	620	1,100	LQM S4UL
		6%	4.5	210	0.70	4,300	620	1,100	LQM S4UL
	Pentachlorophenol	1%	0.22	27 (16.4) ^{vap}	3.0E-02	400	60	110	LQM S4UL
		2.5%	0.52	29	8.0E-02	400	60	120	LQM S4UL
		6%	1.2	31	0.19	400	60	120	LQM S4UL
Others	Carbon Disulphide	1%	0.14	0.14	4.8	11	11,000	1,300	LQM S4UL
		2.5%	0.29	0.29	10	22	11,000	1,900	LQM S4UL
		6%	0.62	0.62	23	47	11,000	2,700	LQM S4UL
	Hexachlorobutadiene	1%	0.29	0.32	0.25	31	25	48	LQM S4UL
		2.5%	0.7	0.78	0.61	66	25	50	LQM S4UL
		6%	1.6	1.8	1.4	120	25	51	LQM S4UL
	Phenol	1%	120	440 (460)	23	440 ^{dir} (26,000)	440 ^{dir} (10,000)	440 ^{dir} (7,600)	LQM S4UL
		2.5%	200	690	42	690 ^{dir} (30,000)	690 ^{dir} (10,000)	690 ^{dir} (8,300)	LQM S4UL
		6%	380	1,200	83	1,300 ^{dir} (34,000)	1,300 ^{dir} (10,000)	1,300 ^{dir} (9,300)	LQM S4UL

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
f = oral, dermal and inhalation exposures compared to oral HCV
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-tetrachlorophenol

Appendix E – Hazard Index Sheets

$$HI = \sum_{Fi=1}^{16} HQ_{Fi} = \frac{\text{Measured concentration } Fi \text{ (mg/kg)}}{S4UL \text{ } Fi \text{ (mg/kg)}}$$

where: HI = Hazard Index
 HQ = Hazard Quotient
 Fi = Fraction I
 S4UL = LQM Suitable 4 Use Levels (S4ULs)

Job Osbornes Yard, Manchester
Job No. LKC231691
SOM 7%
Comment Side A

Residential Without Plant Uptake

	1% S4UL	2.50% S4UL	6% S4UL	Max Soil concn.	HQ (1%SOM)	HQ (2.5%SOM)	HQ (6% SOM)
Aliphatic							
EC5-EC6	42	78	160	0.01			0.0000625
EC6-EC8	100	230	530	0.05			9.434E-05
EC8-EC10	27	65	150	3			0.02
EC10-EC12	130	330	760	4			0.0052632
EC12-EC16	1100	2400	4300	9			0.002093
EC16-EC21	65000	92000	110000	13			0.0001182
EC21-EC35							
EC35-EC44	65000	92000	110000	10			9.091E-05
Aromatic							
EC5-EC7 (benzene)	370	690	1400	0.01			7.143E-06
EC7-EC8 (tolulene)	860	1800	3900	0.13			3.333E-05
EC8-EC10	47	110	270	3			0.0111111
EC10-EC12	250	590	1200	4			0.0033333
EC12-EC16	1800	2300	2500	28			0.0112
EC16-EC21	1900	1900	1900	77			0.0405263
EC21-EC35	1900	1900	1900	50			0.0263158
EC35-EC44	1900	1900	1900	10			0.0052632

HI			0.13
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Appendix F – Example Waste Disposal Tickets

DELIVERY NOTE
B. J. CROWTHER LTD

(5)

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 30/01/24 Order No. _____
Customer Healley Developments
Location yard, Oldham Rd
Vehicle No. [REDACTED] Driver C Brady

spot to tip

	Gross	Kilogrammes
	Tare	1x8 wheel
	Nett	

Printed by [REDACTED]
No: 10692

No. 125374

DELIVERY NOTE

B. J. CROWTHER ②

LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/01/24 Order No.
Customer Heathley Developments
Location Oldham Rd
Vehicle No. [Redacted] Driver CB Brady

Description of Goods		Driver..... CBDU40692	
Spoil to tip		Gross	1x8w load Kilogrammes
		Tare	
Time	* Que for weighbridge @ tip		
Sign & Print: ...		20mins	
Waste Carriers		*	

No. 125375

DELIVERY NOTE

B. J. CROWTHER

⑧

LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/01/24 Order No. _____
Customer Hatley Developments
Location Asbound yard, Oldham Rd
Vehicle No. [REDACTED] Driver C Brady

Description of Goods

Kilogrammes

Spoil to tip

Gross

1 x load

Tare

Time

Que for weighbridge

Nett

Sign & Print:

Waste Carrier

Licence No: CBDU40692

30 mins

No. 125376

DELIVERY NOTE

B. J. CROWTHER 
LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham, OL1 4AE
Tel: 0161 652 0505 Email: Info@bjcrowther.co.uk

Date 31/01/24 Order No.
Customer Heatley Developments
Location Abraham's yard, Oldham Rd
Vehicle No. [REDACTED] Driver C. Brady

		Kilogrammes
<u>2001 to tip</u>	Gross	<u>1x8wload</u>
	Tare	
Time	Nett	

Sign & Print: ...

Waste Carriers
Licence No: CBDU40692

No. 125377

DELIVERY NOTE

B. J. CROWTHER



LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date	31/01/24	Order No.	
Customer	Healey Developments		
Location	Chandos Road, Oldham Rd		
Vehicle No	[REDACTED]	Driver	CB Brady
Description of Goods		Gross	Kilogrammes
Spill to tip			1x8 wheel
		Tare	
Time	On @ weighbridge for tip		
Sign & Print:	[REDACTED]	35mins	
Waste Carriers Licence No:	CBDU40692		
No. 125378			

DELIVERY NOTE**B. J. CROWTHER****LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31.1.26 Order No. OSP/011/0901Customer HETLEY DEVELocation OSTONDE YOLA MINE PATTONVehicle No. [REDACTED] Driver Steve

Description of Goods		Kilogrammes	
Cray	Gross	1 x 8W	
	Tare		
Time	2.15	Nett	

Sign & Print: [REDACTED]Waste Carriers
Licence No: CBDU40692

No. 123679

DELIVERY NOTE

B. J. CROWTHER
LTDHaulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.ukDate 31.01.24 Order No. 0515/017/84601Customer Hearns RevLocation Oldham RdVehicle No. [REDACTED] Driver Tony E

Description of Goods		Kilogrammes	
Non-Haz Spz	Gross		
	Tare		1x8w
Time		Nett	

Sign & Pri [REDACTED]Waste Carriers
Licence No: CBDU40692

No. 125719

DELIVERY NOTE

**B. J. CROWTHER
LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/12/24 Order No. OSB/017/subord
Customer Hootley Developments
Location Oldham Rd M1
Vehicle No. [REDACTED] Driver Grant

Description of Goods		Kilogrammes	
Non Haz SP2	Gross	1x800	
	Tare		
Time	7.55	Nett	

Sign & Print: [REDACTED]

Waste Carriers
Licence No: CBDU40692

No. 117136

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. OSB/011/301201Customer Healey DevelopmentsLocation Oldham Rd M/cVehicle No. [REDACTED] Driver Grant

Description of Goods		Kilogrammes	
Non Haz SP2	Gross	1 x 800	
	Tare		
Time	10.20	Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 117187

DELIVERY NOTE

**B. J. CROWTHER
LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. 058/017/50401
Customer Headley Dev
Location Oldham RP M/c
Vehicle No. [REDACTED] Driver Grant

Description of Goods		Kilogrammes	
Non - Haz SP2	Gross	1280	
	Tare		
Time	11.55	Nett	

Sign & Print: [REDACTED]

Waste Carriers
Licence No: CBDU40692

No. 117188

DELIVERY NOTE

B. J. CROWTHER
LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. CSB/013/SchmalCustomer Heathay DevelopmentLocation Adrian Rd M1Vehicle No. [REDACTED] Driver Grant

Description of Goods		Kilogrammes	
Non Haz SP2	Gross	1280	
	Tare		
Time	1415	Nett	

Sign & Print:

Waste Carriers
Licence No: CBDU40692

No. 117189

NOTE

B. J. CROWTHER LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. 0171
Customer HEATLEY DEV
Location [REDACTED] RD
Vehicle No. [REDACTED] Driver DAVE W.

Description of Goods		Kilogrammes	
178w NON HAZ SP2		Gross	
		Tare	
Time		Nett	

Sign & Print:

Waste Carriers
Licence No: CBDU40692

No. 125430

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31.01.24 Order No. Customer Healey PerLocation Chadman PerVehicle No. [REDACTED] Driver Tanvir

Description of Goods		Kilogrammes	
(FS)		Gross	
		Tare	1180
Time	1:40	Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 125720

DELIVERY NOTE

B. J. CROWTHER
LTDHaulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.ukDate 31.01.08 Order No.
Customer Newley Dev
Location Oldham Rd
Vehicle No. [REDACTED] Driver Taylor

Description of Goods		Kilogrammes	
6CB		Gross	
		Tare	1280
Time	2:30	Nett	

Sign & Print: [REDACTED] Waste Carriers
Licence No: CBDU40692

No. 125721

DELIVERY NOTE
B. J. CROWTHER
LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31.01.20 Order No.
Customer Hearsey DSV
Location Oldham rd
Vehicle No. [REDACTED] Driver Taylor

Description of Goods		Kilogrammes	
<u>655</u>		Gross	
		Tare	<u>1200</u>
Time	<u>3:30</u>	Nett	

Sign & Print: [REDACTED]

Waste Carriers
Licence No: CBDU40692

No. 125722

DELIV

B. J. CROWTHER

LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No.

Customer HEATLEY DEU

Location OLDHAM RD

Vehicle No. [REDACTED] Driver DAVE W

Description of Goods		Kilogrammes	
1x8w INERT TO TIP		Gross	
		Tare	
Time		Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 125431

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31.01.24 Order No. SBB/001/506 (51)
Customer Heeley Dev
Location Oldham Rd
Vehicle No. [REDACTED] Driver Twpw
Description of Goods Kilogrammes

Muck

Gross

Tare

1 x 8m

Time

Nett

Sign & Print:

Waste Carriers

Licence No: CBDU40692

No. 125718

DELIVERY NOTE

B. J. CROWTHER
LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
 Windsor House, Windsor Street, Oldham OL1 4AE
 Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. OSR/011/SUB 001
 Customer Hertley Developments
 Location Miles Platting
 Vehicle No. PNIS DLT Driver Rob Ashcroft

Description of Goods		Kilogrammes	
Inherent 1 X 8 w/Tipper	Gross		
	Tare		
Time		Nett	

Sign & Print: 

Waste Carriers
 Licence No: CBDU40692

No. 122723

DELIVERY NOTE

B. J. CROWTHER
LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
 Windsor House, Windsor Street, Oldham OL1 4AE
 Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. OSR/011/SUB 001
 Customer Hertley Developments
 Location Miles Platting
 Vehicle No. PNIS DLT Driver Rob Ashcroft

Description of Goods		Kilogrammes	
Inherent 1 X 8 w/Tipper	Gross		
	Tare		
Time		Nett	

Sign & Print: 

Waste Carriers
 Licence No: CBDU40692

No. 122722

B. J. CROWTHER LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. OSB/011/SUB 001
Customer Hensley Developments
Location Miles Platting
Vehicle No. [REDACTED] Driver Rob Ashmore

Description of Goods		Kilogrammes	
Inlet 1 X 8 w/Tipper	Gross		
	Tare		
Time		Nett	

Sign & Print [REDACTED]

Waste Carriers
Licence No: CBDU40692

No. 122724

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. OSR/011/SUB 001Customer Hestley DevelopmentLocation Miles PlattingVehicle No. [REDACTED] Driver Rob Ashcroft

Description of Goods		Kilogrammes	
<u>Inherit</u> <u>1 x 8 w/ Tipper</u>	Gross		
	Tare		
Time		Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 122720

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31/1/24 Order No. OSR/011/SUB 001Customer Hestley DevelopmentLocation Miles PlattingVehicle No. [REDACTED] Driver Rob Ashcroft

Description of Goods		Kilogrammes	
<u>Inherit</u> <u>1 x 8 w/ Tipper</u>	Gross		
	Tare		
Time		Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 122721

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31-1-24 Order No. OSB/011/SUB 001Customer HEATHLY DEVELOPMENTS - OSBORNE'S LANDLocation OLDHAM A.D. MILES PARTINGVehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
<u>1 x 8-w. box spm.</u>	Gross		
	Tare		
Time		Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 117269

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31-1-24 Order No. OSB/011/SUB 001Customer HEATHLY DEVELOPMENTS - OSBORNE'S LANDLocation OLDHAM A.D. MILES PARTINGVehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
<u>1 x 8-w. box spm.</u>	Gross		
	Tare		
Time		Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 117268

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31-1-24 Order No. OSB/011/SUB001Customer HEATHLY DEVELOPMENTS, OSBORNE YARDLocation OLDHAM A.D. MILES PUTTINGVehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
128 - 12.600 spoil		Gross	
		Tare	
Time		Nett	

Sign & Print: [REDACTED]Waste Carriers
Licence No: CBDU40692

No. 117266

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 31-1-24 Order No. OSB/011/SUB001Customer HEATHLY DEVELOPMENTS, OSBORNE YARDLocation OLDHAM A.D. MILES PUTTINGVehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
128 - 12.600 spoil		Gross	
		Tare	
Time		Nett	

Sign & Print: [REDACTED]Waste Carriers
Licence No: CBDU40692

No. 117267

DELIVERY NOTE**B. J. CROWTHER
LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date: 31-1-24 Order No: 058/011/SUB 001
Customer: HEDLEY DEVELOPMENTS OSBORNE ROAD
Location: Oldham A.D. MILES PLATTING
Vehicle No: [REDACTED] Driver: JOHN

Description of Goods		Kilogrammes	
1 x 24-w.b.m. spire	Gross		
	Tare		
Time		Nett	

Sign & Print: ... [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 117270

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks
 Windsor House, Windsor Street, Oldham OL1 4AE
 Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 30.1.24 Order No. OSB/011/S40001

Customer Hestley Developments, OSBANKS YARD

Location OLDHAM A.D. MILES PLATTING

Vehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
<u>128 - W. 600 spoil</u>	Gross		
	Tare		
Time		Nett	

Sign & Print:

Waste Carriers

Licence No: CBDU40692

No. 117264

DELIVERY NOTE

B. J. CROWTHER**LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks
 Windsor House, Windsor Street, Oldham OL1 4AE
 Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 30.1.24 Order No. OSB/011/S40001

Customer Hestley Developments, OSBANKS YARD

Location OLDHAM A.D. MILES PLATTING

Vehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
<u>128 - W. 600 spoil</u>	Gross		
	Tare		
Time		Nett	

Sign & Print:

Waste Carriers

Licence No: CBDU40692

No. 117263

DELIVERY NOTE**B. J. CROWTHER****LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 30.1.24 Order No. DSB/011/SUB001Customer HEATLEY DEVELOPMENTS, OSBORNES WAYLocation OLDHAM A.D. MILES PLATTINGVehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
124-15.600 Spoil		Gross	
		Tare	
Time		Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 117262

DELIVERY NOTE**B. J. CROWTHER****LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 30.1.24 Order No. DSB/011/SUB001Customer HEATLEY DEVELOPMENTS, OSBORNES WAYLocation OLDHAM A.D. MILES PLATTINGVehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
124-15.600 Spoil		Gross	
		Tare	
Time		Nett	

Sign & Print: [REDACTED]

Waste Carrier

Licence No: CBDU40692

No. 117261

DELIVERY NOTE**B. J. CROWTHER****LTD**

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 30.1.24 Order No. OSB/011/548001Customer Hestley Developments - OSBORNE YMOLocation OLDHAM A.O. - MILLS PLANTINGVehicle No. [REDACTED] Driver JOHN

Description of Goods		Kilogrammes	
<u>1 x 8 - 1/2 ton spoil</u>		Gross	
		Tare	
Time		Nett	

Sign & Print: [REDACTED]

Waste Carriers

Licence No: CBDU40692

No. 117265

RECEIPT NOTE
B. J. CROWTHER LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 29/1/24 Order No. 052/011/SUB 001
Customer Hensley Developments
Location M. 100 J. R. 100
Vehicle No. [REDACTED] Driver Rob Ashworth

Description of Goods		Kilogrammes	
Inch 1 x 8 W/T. 100	Gross		
	Tare		
Time		Nett	

Sign & Print: ... [REDACTED]

Waste Carriers
Licence No: CBDU40692

No. 123677

NOTE

B. J. CROWTHER

LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 29/1/24 Order No. 050/011/SUG001

Customer Hentley Development

Location miles Plattin

Vehicle No. Driver Rob Ashcroft

Description of Goods		Kilogrammes	
1 X 8 w/Tipper	Inert	Gross	
		Tare	
Time		Nett	

Sign & Print:

Waste Carriers Licence No: CBDU40692

No. 123676

B. J. CROWTHER

LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks

Windsor House, Windsor Street, Oldham OL1 4AE

Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 29/1/24 Order No. 050/011/SUG001

Customer Hentley Development

Location miles Plattin

Vehicle No. Driver Rob Ashcroft

Description of Goods		Kilogrammes	
1 X 8 w/Tipper	Inert	Gross	
		Tare	
Time		Nett	

Sign & Print:

Waste Carriers Licence No: CBDU40692

No. 123678

DELIVERY NOTE

B. J. CROWTHER LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 29/1/24 Order No. OSB/011/Sub 001
Customer Healey Development
Location 17.122 Plotting
Vehicle No. [REDACTED] Driver Rob Ashmore

Description of Goods		Kilogrammes	
<u>Inhalt</u> <u>1 X 8 w/ Tipper</u>	Gross		
	Tare		
Time		Nett	

Sign & Print: [REDACTED]
Waste Carriers Licence No: CBDU40692 No. 123674

DELIVERY NOTE

B. J. CROWTHER LTD

Haulage • Excavation • Demolition • Plant Hire • Groundworks
Windsor House, Windsor Street, Oldham OL1 4AE
Tel: 0161 652 0505 Email: info@bjcrowther.co.uk

Date 29/1/24 Order No. OSB/011/Sub 001
Customer Healey Development
Location 17.122 Plotting
Vehicle No. [REDACTED] Driver Rob Ashmore

Description of Goods		Kilogrammes	
<u>Inhalt</u> <u>1 X 8 w/ Tipper</u>	Gross		
	Tare		
Time		Nett	

Sign & Print: [REDACTED]
Waste Carriers Licence No: CBDU40692 No. 123675

Appendix G – References

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- ²⁰ CIRIA, March 2014, "Asbestos in soil and made ground: a guide to understanding and managing risks", C733.
- ²¹ Yorkshire and Lincolnshire Pollution Advisory Group, June 2021, "Verification Requirements for Cover Systems: Technical Guidance for Developers, Landowners and Consultants", Version 4.1.
- ²² The British Standards Institution (BSI Standards), April 2015, "Specification for topsoil", BS 3882:2015 - TC.
- ²³ CIRIA, January 2001, "Contaminated land risk assessment. A guide to good practice", C552.

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