

Analytical Test Report

E26/08046/CAS/26-25918

Clients Project Reference 4312D Staplefield Rd, Slaughtam
Clients Order Number N/A
Sample(s) Analysed 4
Sample(s) received / instructed 12/06/2026 / 12/06/2026
Sample(s) Tested 15/06/2026 to 23/06/2026
Report issued 24/06/2026
Report issue number 1

Tested on Behalf of

Castledine Environmental
4 Wymeswold Road
Hoton
Loughborough
LE12 5SN

Signed



James Gane
Analytical Services Manager

Notes:

General

This report shall not be reproduced except in full

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples were supplied by customer, results apply to the samples as received.

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Moisture Content was determined in accordance with CTS method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with CTS method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Please note: Where further analysis is required, samples identified as containing asbestos are screened and tested on an as received basis. No correction is made for moisture content and other than the asbestos test(s) these results are not covered by our accreditation.

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

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

U = UKAS Accreditation, M = MCERTS Accreditation, N = Unaccredited, SC = Subcontracted

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Analytical Test Results - ENV Analysis Solids

Lab Reference					806484	806486
Client Sample ID					-	-
Client Sample Location					IP02	IP04
Client Sample Type					ES	ES
Client Sample Number					1	1
Depth - Top (m)					0.1	0.2
Depth - Bottom (m)					0.1	0.2
Date of Sampling					11/06/2026	11/06/2026
Time of Sampling					1040	1130
Sample Matrix					Clay	Clay
Determinant	Code	Units	LOD	Accreditation		
Arsenic	ICPMETS	mg/kg	10	M	< 10	< 10
Cadmium	ICPMETS	mg/kg	0.2	M	0.5	0.4
Chromium (Total)	ICPMETS	mg/kg	1	U	9.0	9.7
Copper	ICPMETS	mg/kg	2	M	12	11
Lead	ICPMETS	mg/kg	1.5	M	35	17
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5	< 2.5
Nickel	ICPMETS	mg/kg	1	M	4.9	4.1
Selenium	ICPMETS	mg/kg	8	N	< 8.0	< 8.0
Zinc	ICPMETS	mg/kg	2	M	40	21
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0	< 1.0
Chromium (Hexavalent)	SKALARHCS	mg/kg	1	N	< 1.0	< 1.0
pH	PHS	pH units	1	M	6.1	6.8
SOM	TOCS	%	0.86	U	3.1	0.9
Asbestos	ASB	p/a	-	U	No Asbestos Detected	No Asbestos Detected
Acenaphthene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02
Acenaphthylene	PAHASRDS	mg/kg	0.02	U	< 0.02	< 0.02
Anthracene	PAHASRDS	mg/kg	0.02	U	< 0.02	< 0.02
Benzo[a]anthracene	PAHASRDS	mg/kg	0.02	M	0.10	< 0.02
Benzo[a]pyrene	PAHASRDS	mg/kg	0.02	M	0.09	< 0.02
Benzo[b]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.12	< 0.02
Benzo[ghi]perylene	PAHASRDS	mg/kg	0.02	M	0.07	< 0.02
Benzo[k]fluoranthene	PAHASRDS	mg/kg	0.02	M	0.05	< 0.02
Chrysene	PAHASRDS	mg/kg	0.02	M	0.10	< 0.02
Dibenzo[a,h]anthracene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02
Fluoranthene	PAHASRDS	mg/kg	0.02	M	0.19	< 0.02
Fluorene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02
Indeno[1,2,3,-cd]pyrene	PAHASRDS	mg/kg	0.02	M	0.08	< 0.02
Naphthalene	PAHASRDS	mg/kg	0.02	M	< 0.02	< 0.02
Phenanthrene	PAHASRDS	mg/kg	0.02	M	0.06	< 0.02
Pyrene	PAHASRDS	mg/kg	0.02	M	0.26	< 0.02
Total PAH (Sum of USEPA 16)	PAHASRDS	mg/kg	0.32	U	1.3	< 0.32

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Analytical Test Results - EPHVPHS

Lab Reference					806483	806485
Client Sample ID					-	-
Client Sample Location					IP01	IP03
Client Sample Type					ES	ES
Client Sample Number					1	1
Depth - Top (m)					0.2	0.2
Depth - Bottom (m)					0.2	0.2
Date of Sampling					11/06/2026	11/06/2026
Time of Sampling					1022	1105
Sample Matrix					Clay	Sand
Determinant	Code	Units	LOD	Accreditation		
Benzene	VPHS	mg/kg	0.01	M	< 0.01	< 0.01
Toluene	VPHS	mg/kg	0.01	M	< 0.01	< 0.01
Ethylbenzene	VPHS	mg/kg	0.01	M	< 0.01	< 0.01
m&p Xylene	VPHS	mg/kg	0.02	M	< 0.02	< 0.02
o-Xylene	VPHS	mg/kg	0.01	M	< 0.01	< 0.01
Methyl tert-butyl ether (MTBE)	VPHS	mg/kg	0.01	M	< 0.01	< 0.01
Aliphatic >C5 to C6 [5]	VPHS	mg/kg	0.06	M	< 0.06	< 0.06
Aliphatic >C6 to C8 [5]	VPHS	mg/kg	0.06	M	< 0.06	< 0.06
Aliphatic >C8 to C10 [5]	VPHS	mg/kg	0.06	M	< 0.06	< 0.06
Aliphatic >C10-C12 [13]	GCXGCS	mg/kg	1	M	1.4	17
Aliphatic >C12-C16 [13]	GCXGCS	mg/kg	1	M	5.2	< 10.0
Aliphatic >C16-C21 [13]	GCXGCS	mg/kg	1	M	1.4	44
Aliphatic >C21-C35 [13]	GCXGCS	mg/kg	2	M	11	45
Aliphatic >C35-C44 [13]	GCXGCS	mg/kg	5	N	< 5.0	< 50.0
Aromatic >C5 to C7 [6]	VPHS	mg/kg	0.01	M	< 0.01	< 0.01
Aromatic >C7 to C8 [6]	VPHS	mg/kg	0.01	M	< 0.01	< 0.01
Aromatic >C8 to C10 [6]	VPHS	mg/kg	0.06	M	< 0.06	< 0.06
Aromatic >C10-C12 [14]	GCXGCS	mg/kg	1	M	< 1.0	< 10.0
Aromatic >C12-C16 [14]	GCXGCS	mg/kg	1	M	4.5	< 10.0
Aromatic >C16-C21 [14]	GCXGCS	mg/kg	1	M	9.9	86
Aromatic >C21-C35 [14]	GCXGCS	mg/kg	2	M	22	200
Aromatic >C35-C44 [14]	GCXGCS	mg/kg	5	N	< 5.0	230
Total >C5-C35 (Ali/Aro) [10]	CWGS	mg/kg	10	M	56	390
Total >C5-C40 (Ali/Aro) [10]	CWGS	mg/kg	10	M	59	520

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Analytical Test Results - SVOCs

Lab Reference					806483	806485
Client Sample ID					-	-
Client Sample Location					IP01	IP03
Client Sample Type					ES	ES
Client Sample Number					1	1
Depth - Top (m)					0.2	0.2
Depth - Bottom (m)					0.2	0.2
Date of Sampling					11/06/2026	11/06/2026
Time of Sampling					1022	1105
Sample Matrix					Clay	Sand
Determinant	Code	Units	LOD	Accreditation		
1,2,4-Trichlorobenzene	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
1,2-Dichlorobenzene	SVOCs	mg/kg	0.1	N	< 0.1	< 1.0
1,3-Dichlorobenzene	SVOCs	mg/kg	0.1	N	< 0.1	< 1.0
1,4-Dichlorobenzene	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
1-Chloronaphthalene	SVOCs	mg/kg	0.1	N	< 0.1	< 1.0
2,3,4,6-Tetrachlorophenol	SVOCs	mg/kg	0.6	N	< 0.6	< 6.0
2,4,5-Trichlorophenol	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
2,4,6-Trichlorophenol	SVOCs	mg/kg	0.3	N	< 0.3	< 3.0
2,4-Dichorophenol	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
2,4-Dimethyphenol	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
2,4-Dinitrophenol	SVOCs	mg/kg	2	N	< 2.0	< 20.0
2,6-Dichorophenol	SVOCs	mg/kg	0.3	N	< 0.3	< 3.0
2,6-Dinitrotoluene	SVOCs	mg/kg	0.6	N	< 0.6	< 6.0
2-Chlorophenol	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
2-Methylnaphthalene	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
2-Methylphenol	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
2-Nitroaniline	SVOCs	mg/kg	0.4	N	< 0.4	< 4.0
2-Nitrophenol	SVOCs	mg/kg	0.6	N	< 0.6	< 6.0
3,3-Dichlorobenzidine	SVOCs	mg/kg	0.3	N	< 0.3	< 3.0
3/4-Methylphenol	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
3-Nitroaniline	SVOCs	mg/kg	0.6	N	< 0.6	< 6.0
4-Chlorophenyl phenyl ether	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
4,6-Dinitro-2-methylphenol	SVOCs	mg/kg	1	N	< 1.0	< 10.0
4-Bromophenyl phenyl ether	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
4-Chloro-3-methylphenol	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
4-Chloroaniline	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
4-Nitroaniline	SVOCs	mg/kg	0.3	N	< 0.3	< 3.0
4-Nitrophenol	SVOCs	mg/kg	0.6	N	< 0.6	< 6.0
Aniline	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
Azobenzene	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
Benzidine	SVOCs	mg/kg	1	N	< 1.0	< 10.0
Benzyl Alcohol	SVOCs	mg/kg	0.3	N	< 0.3	< 3.0
Benzyl butyl phthalate	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0
Bis(2-chloroethoxy)methane	SVOCs	mg/kg	0.1	N	< 0.2	< 2.0
Bis(2-chloroethyl)ether	SVOCs	mg/kg	0.2	N	< 0.2	< 2.0

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Analytical Test Results - SVOCS

Lab Reference					806483	806485
Client Sample ID					-	-
Client Sample Location					IP01	IP03
Client Sample Type					ES	ES
Client Sample Number					1	1
Depth - Top (m)					0.2	0.2
Depth - Bottom (m)					0.2	0.2
Date of Sampling					11/06/2026	11/06/2026
Time of Sampling					1022	1105
Sample Matrix					Clay	Sand
Determinant	Code	Units	LOD	Accreditation		
Bis(2-chloroisopropyl)ether	SVOCS	mg/kg	0.2	N	< 0.2	< 2.0
Bis(2-ethylhexyl) phthalate	SVOCS	mg/kg	0.2	N	< 0.2	< 2.0
Dibenzofuran	SVOCS	mg/kg	0.1	N	< 0.1	< 1.0
Dibutyl phthalate	SVOCS	mg/kg	0.1	N	< 0.1	< 1.0
Diethyl Phthalate	SVOCS	mg/kg	0.2	N	< 0.2	< 2.0
Dimethyl phthalate	SVOCS	mg/kg	0.2	N	< 0.2	< 2.0
Di-n-octyl phthalate	SVOCS	mg/kg	0.2	N	< 0.2	< 2.0
Diphenylamine	SVOCS	mg/kg	0.1	N	< 0.1	< 1.0
Hexachlorobenzene	SVOCS	mg/kg	0.3	N	< 0.3	< 3.0
Hexachlorobutadiene	SVOCS	mg/kg	0.3	N	< 0.3	< 3.0
Hexachlorocyclopentadiene	SVOCS	mg/kg	1	N	< 1.0	< 10.0
Hexachloroethane,	SVOCS	mg/kg	0.2	N	< 0.2	< 2.0
Isophorone	SVOCS	mg/kg	0.2	N	< 0.2	< 2.0
Methyl methanesulfonate	SVOCS	mg/kg	0.3	N	< 0.3	< 3.0
Nitrobenzene	SVOCS	mg/kg	0.3	N	< 0.3	< 3.0
N-Nitrosodimethylamine	SVOCS	mg/kg	0.2	N	< 0.2	< 2.0
Pentachlorophenol	SVOCS	mg/kg	1	N	< 1.0	< 10.0
Phenol	SVOCS	mg/kg	0.1	N	< 0.1	< 1.0

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Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
806483	-	IP01	SOIL	-	Brown silty clay with rare organic matter	26	< 0.1	-
806484	-	IP02	SOIL	-	Brown silty clay with rare organic matter	28	< 0.1	-
806485	-	IP03	SOIL	-	Dark brown gravelly clayey silty sand with rare organic matter	8.8	13	-
806486	-	IP04	SOIL	-	Light brown slightly gravelly silty clay with rare organic matter	19	< 0.1	-

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Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
806483	-	IP01	SOIL	-	VPH/BTEX - Sample taken from container with headspace.
806485	-	IP03	SOIL	-	VPH/BTEX - Sample taken from container with headspace.

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Analysis Methodologies - Please refer to sample comments page (if present) for any changes to methods Methods

Site addresses where testing is performed:

Leicester - 7-11 Harding Street, Leicester, LE1 4DH

Poole - Unit D11, Admiralty Park, Station Road, Holton Heath, Poole, BH16 6HX & Unit 14B, Blackhill Road West, Holton Heath Trading Park, Poole, Dorset, BH16 6LE

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Site	Test Details
ASB	MS - AS - Asbestos	-	-	Leicester	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
CWGS	Calculation from VPH-S and EPH-S	As received	Passing 10mm test sieve	Leicester	Determination of TPH CWG (Volatile Petroleum Hydrocarbons and Extractable Petroleum Hydrocarbons) in soils via Headspace-GC-MS and GC-GC-FID respectively
GCGCS	MS - CL - TPH & EPH by GCXGC	As received	Passing 10mm test sieve	Leicester	Determination of TPH and EPH in soils via GCxGC-FID
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Leicester	Determination of metals in soils via ICP
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Leicester	Determination of Polyaromatic hydrocarbons in soil via GC-MS
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Leicester	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Leicester	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Leicester	Determination of hexavalent chromium in soil using Skalar segmented flow analyser
SKALARPHS	MS - CL - Phenols by Skalar	As received	Passing 10mm test sieve	Leicester	Determination of total phenols in soil using Skalar segmented flow analyser
SVOCS	MS - CL - Semi VOC	As received	Passing 10mm test sieve	Leicester	Determination of Semi volatile organic compounds in soil via GC-MS
TOCS	MS - CL - TOC Eltra	Air Dried	Passing 10mm test sieve	Leicester	Determination of Total Organic Carbon in soils
VPHS	MS - CL - VPH	As received	Passing 10mm test sieve	Leicester	Determination of VPH in soils via Headspace-GC-MS

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 HWOL TPH Acronym Index

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
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Key of Codes	
[1]	EH_1D_TOTAL
[2]	EH_CU_1D_TOTAL
[3]	EH_CU+HS_1D_TOTAL
[4]	EH_1D+HS_MS_TOTAL
[5]	HS_MS_1D_AL
[6]	HS_MS_1D_AR
[7]	HS_MS_1D_TOTAL
[8]	EH_CU_1D_AL
[9]	EH_CU_1D_AR
[10]	EH_2D+HS_1D_TOTAL
[11]	EH_CU_2D+HS_1D_TOTAL
[12]	EH_2D_TOTAL
[13]	EH_2D_AL
[14]	EH_2D_AR
[15]	EH_CU_2D_TOTAL
[16]	EH_CU_2D_AL
[17]	EH_CU_2D_AR