4134-02 / JH

8th August 2025

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VALIDATION OF REMEDIAL MEASURES FOR LAND AT BLACKWIN STREET, MANCHESTER – PLOTS 1-7

This Remediation Validation Report has been prepared at the request of John Southworth Builders Ltd. Instructions to proceed with this report were received in July 2025. The 0.147ha site is located to to the north-east of Blackwin Street, Manchester at the approximate post code M12 5LB. The National Ordnance Survey Grid Reference for the centre of the site is 387461E, 396809N. This report follows, and should be read in conjunction with, the following reports:

- IGE Consulting Ltd., '*Remedial Strategy*' (ref: 4134-01, dated: March 2024).

Installation of a Clean Cover System

The following Landscaping Plan details the proposed private rear gardens (red) and POS soft landscaping (Public Open Space / POS_{resi} – yellow). The below remedial recommendations will refer to the landscaping designations detailed in the below extract:



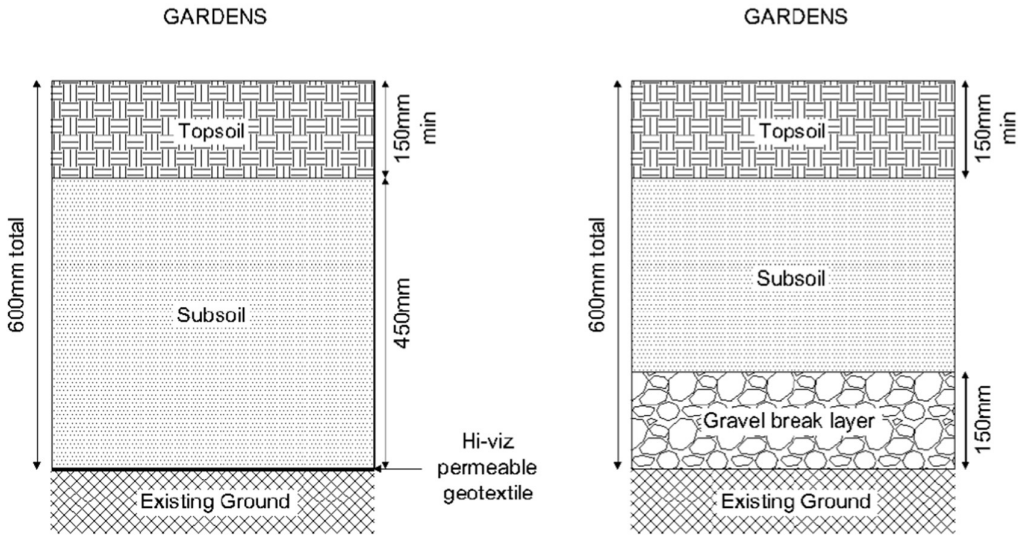
Figure 3: Extract of the landscape plan of the site (SI-02 Landscaping Plan, Feb 2024).

Red = private rear gardens. Yellow = soft landscaping / public open space.

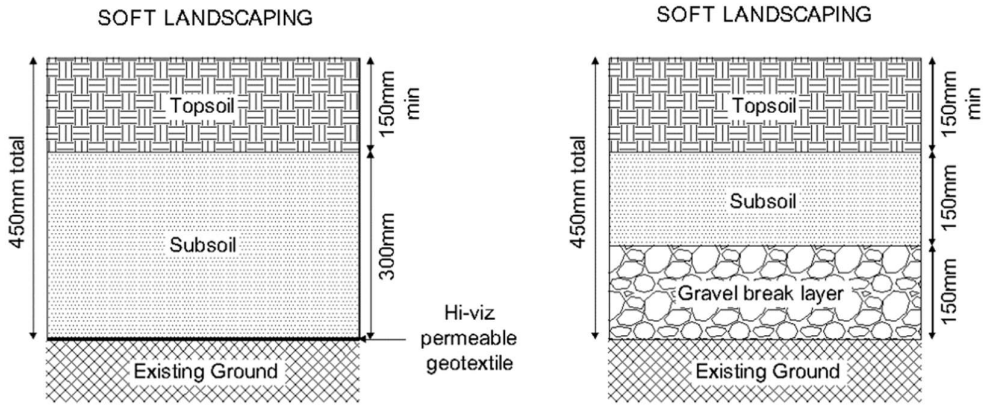
The following procedure was outlined for use in **all private gardens**:

1. Excavate to 600mm bgl in private gardens (450mm in soft landscaping areas).
2. A 600mm clean cover system is recommended to be added to the proposed private gardens (450mm in soft landscaping areas). This is to consist of:
   - No less than 150mm and no more than 300mm suitable topsoil, underlain by;
   - Suitable subsoil to a total (topsoil + subsoil) depth of 600mm (450mm in areas of soft landscaping), underlain by;
- A high vis geotextile marker;
- Validate in line with the below strategy.

This is shown diagrammatically below:



The cover system for the **soft landscaping** is to be 450mm thick, and consist of:



Soils for use in the above recommended cover system must be validated as detailed below to ensure their suitability for use.

Validation of Clean Cover System

Once the 600mm clean cover system is installed to break contaminative linkages (450mm in areas of soft landscaping), validation requirements include:

- Details of the source of the cover material;
- Chemical test results to demonstrate that the soil is free from contamination and 'suitable for use' in-line with the below chemical testing suites and rates.
- Waste transfer notes to provide evidence of source;
- Confirmation of cover depth by either measurement tape or topographical survey with photographs at a frequency of one pit per three plots.

No topsoil or subsoil is present on-site therefore all topsoil and subsoil will need to be imported and this must be validated as detailed below to ensure its suitability for use (i.e., no glass or plastic is to be included and meets chemical testing acceptability criteria).

Imported topsoil and subsoil is required to be tested at source prior to import to confirm suitability. All topsoil and subsoil, whether site-won or imported is required to be tested at the following frequency:

Source	Material End Use	Sampling Frequency[1]	Testing Suites[3] (see below)
Greenfield Source:	Topsoil	1 per 200m^3	A, B, C, D, F
	Subsoil	1 per 200m^3	A, B, C, D, F
Brownfield Source:	Topsoil	1 per 50m^3	A, B, C, D, F, H
	Subsoil	1 per 100m^3	A, B, C, D, F
	General Fill[2]	1 per 1000m^3	A, B, C, E, G

1) Minimum 3 samples regardless of volume.
1) 'General Fill' is material used primarily to raise levels, specifically not within areas of private gardens, public open space, or soft landscaping, e.g. 6F2.
2) In addition to the standard suites given, the laboratory testing suite should include any additional contaminants of concern based on the source of the samples.

Testing Suites:

A. Asbestos ID, Asbestos quantification.
B. pH, total and free cyanide, soluble sulfate, organic matter.
C. Arsenic, Beryllium, Boron, Cadmium, Chromium (III and VI) Copper, Lead, Inorganic Mercury, Nickel, Selenium, Vanadium, Zinc
D. Speciated PAHs: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(ghi)perylene.
E. Total (non-speciated) PAHs.
F. Speciated Total Petroleum Hydrocarbons (TPH): Aliphatic >EC5 - EC6, >EC6 - EC8, >EC8 - EC10, >EC10 - EC12, >EC12 - EC16, >EC16 - EC21, >EC21 - EC35, and > EC35 - EC44, and Aromatic >EC5 - EC7, >EC7 - EC8, >EC8 - EC10, >EC10 - EC12, >EC12 - EC16, >EC16 - EC21, >EC21 - EC35, > EC35 - EC44.
G. Total Petroleum Hydrocarbons (TPH): TPH EC6 – EC40.
H. cBTEX: Benzene, Toluene, Ethylbenzene, p- & m-xylene, o-xylene. Methyl tertiary butyl ether (MTBE).

Once tested, the results are to be compared against the following Acceptability Criteria:

Suite	Determinand (mg/kg unless stated)	Acceptability Criteria for:			
		Private Gardens	Public Open Space (residential)	Soft Landscaping or Public Open Space (Park)	General Fill
A	Asbestos (%)	ND	ND	ND	<0.001 – 0.01%
B	pH	>6 - <8[3]	>6 - <8[3]	>6 - <8[3]	>5 - <10[3]
	Total Cyanide	0.5[3]	0.5[3]	0.5[3]	0.5[3]
	Free Cyanide	0.5[3]	0.5[3]	0.5[3]	0.5[3]
	Soluble Sulfate (mg/l)	500[3]	500[3]	500[3]	500[3]
C	Arsenic	37	79	170	640
	Beryllium	1.7	2.2	63	12
	Boron	290	21000	46000	240000
	Cadmium	11	120	560	190
	Chromium (III)	910	1500	33000	8600
	Chromium (VI)	6	7.7	220	33
	Copper	2400	12000	44000	68000
	Lead	200[1]	630[1]	1300	2330[1]
	Inorganic Mercury	40	120	240	1100
	Nickel	130	230	800	980
	Selenium	250	1100	1800	12000
	Vanadium	410	2000	5000	9000
	Zinc	3700	81000	170000	730000
D	Naphthalene	2.3	4900	1200	
	Acenaphthylene	170	15000	29000	
	Acenaphthene	210	15000	29000	
	Fluorene	170	9900	20000	
	Phenanthrene	95	3100	6200	
	Anthracene	2400	74000	150000	
	Fluoranthene	280	3100	6300	
	Pyrene	620	7400	15000	
	Benzo(a)anthracene	7.2	29	49	
	Chrysene	15	57	93	
	Benzo(b)fluoranthene	2.6	7.1	13	
	Benzo(k)fluoranthene	77	190	370	
	Benzo(a)pyrene	2.2	5.7	11	
	Indeno(1,2,3-cd)pyrene	27	82	150	
	Dibenz(a,h)anthracene	0.24	0.57	1.1	
	Benzo(ghi)perylene	320	640	1400	
E	Total PAHs				1000[4]
F	TPH-CWG - Aliphatic >EC5 - EC6	42	570000	95000	
	TPH-CWG - Aliphatic >EC6 - EC8	100	600000	150000	
	TPH-CWG - Aliphatic >EC8 - EC10	27	13000	14000	
	TPH-CWG - Aliphatic >EC10 - EC12	130	13000	21000	
	TPH-CWG - Aliphatic >EC12 - EC16	1100	13000	25000	
	TPH-CWG - Aliphatic >EC16 - EC21	65000	250000	450000	
	TPH-CWG - Aliphatic >EC21 - EC35				
	TPH-CWG - Aliphatic > EC35 - EC44	65000	250000	450000	
	TPH-CWG - Aromatic >EC5 - EC7	70	56000	76000	
	TPH-CWG - Aromatic >EC7 - EC8	130	56000	87000	
	TPH-CWG - Aromatic >EC8 - EC10	34	5000	7200	
	TPH-CWG - Aromatic >EC10 - EC12	74	5000	9200	
	TPH-CWG - Aromatic >EC12 - EC16	140	5100	10000	
	TPH-CWG - Aromatic >EC16 - EC21	260	3800	7600	
	TPH-CWG - Aromatic >EC21 - EC35	1100	3800	7800	
	TPH-CWG - Aromatic > EC35 - EC44	1100	3800	7800	
G	TPH > EC6 - EC40				5000[4]
H	Benzene	0.087	72	90	
	Toluene	130	56000	87000*	
	Ethylbenzene	47	24000	17000*	
	p & m-xylene	56	41000	17000*&**	
	o-xylene	60	41000	17000*	
	MTBE (Methyl Tertiary Butyl Ether)	LOD[3]	LOD[3]	LOD[3]	

LQM/CIEH S4ULs for Human Health Risk Assessment (3rd edition, 2015) used unless stated:

1) Category 4 Screening Levels (March 2014)

2) *CL:AIRE Soil GAC for Human Health Assessment (January 2010)*
3) *In-house screening criteria used as no GAC methodology currently exists*
4) *Hazardous waste thresholds. This limit only applies to imported material, not to in-situ soil.*

Assumed 1% SOM (most conservative) for those values dependent upon SOM.
ND = Not Detected
LOD = Limit of Detection
**Exceeds vapour saturation limit*
***Exceeds solubility saturation limit*

The above acceptability criteria for PAHs for imported topsoil and subsoil are based on the published LQM/CIEH S4ULs (2015) for each individual PAH and not based on the Category 4 Screening Level using benzo(a)pyrene as a surrogate marker. This is as the source of the imported material is unknown therefore using the surrogate marker approach may not be suitable as the distribution of PAHs in the imported material may not be similar to those in the Culp et al. (1998)1 study. Once chemical testing had been undertaken on imported soil and the distribution of PAHs compared to the distribution in the Culp et al. (1998) study, it may be suitable to use the surrogate marker approach / C4SL.

A development site layout plan, showing the locations of the gardens and soft landscaping areas, is contained in Appendix 1.

Suitability of Imported Topsoil

The topsoil for the clean cover system was taken from Lower Gollinrod Farm, Bury BL9 5NB. Chemical and BS3882:2015 testing of the imported topsoil was undertaken at the source site – this was analysed by Chemtech Environmental and assessed by IGE Consulting. The supplier (DHI) confirmed the material was sourced from the above address and then screened to remove vegetation and stockpiled. Given the material has been screened, it is prudent that this source is tested on a 1:50m^3 basis.

No exceedances above human health criteria were detected. On this basis, the soils were deemed acceptable for import and suitable for use on residential development sites. The chemical test results at source are contained in Appendix 2.

The topsoil was visually assessed and found to contain no plastics, glass, metals, or other deleterious anthropogenic materials and appeared to be a suitable growing medium. Chemical testing at site was analysed by i2 Analytical and assessed by IGE Consulting. Chemical testing at site was analysed by i2 Analytical and assessed by IGE Consulting. The area of the Plots 1-7 equates to approximately 480m^2. Utilising an average of 0.30m depth of topsoil equates to a volume of 143m^3. Consequently, 3 No. soil samples were taken which meets the above / minimum requirements – 1 per 50m^3. A wide range of contaminants were analysed for comparison to GACs for a 'residential with plant uptake' end use

[1] Culp et al. (1998), *A comparison of the tumors induced by coal tar and benzo[a]pyrene in a 2-year bioassay*, **Carcinogenesis,** vol.19, no.1, pp.117–124.

No concentrations were present in exceedance of their respective GACs. Therefore, the topsoil was deemed suitable for use. The chemical test results at site are included in Appendix 3.

Suitability of Imported Subsoil

The subsoil for the clean cover system comprises sandy loam from Wincham Yard – no historical source of this material was noted as a result a conservative testing rate (1:100m^3) has been applied for onsite testing. Chemical and BS8601:2013 suitability testing at source was undertaken by Chemtech Environmental and analysed by IGE Consulting. The subsoils were deemed to be suitable for import. The chemical test results at source are included in Appendix 2.

The subsoil is a manufactured material, although chemically and physically suitable, IGE Consulting determined the more conservative testing ratio of 1 per 100m^3 for brownfield material should be utilised.

The subsoil was visually assessed and found to contain no plastics, glass, metals, or other deleterious anthropogenic materials. Chemical testing at site was analysed by i2 Analytical and assessed by IGE Consulting The area of the Plots 1-7 equates to approximately 480m^2. Utilising an average of 0.30m depth of subsoil equates to a volume of 143m^3. Consequently, 3 No. soil samples were taken which exceeds the above requirements – 1 per 100m^3 (It also meets the 1:50m^3 ratio). A wide range of contaminants were analysed for comparison to GACs for a 'residential with plant uptake' end use.

No concentrations were present in exceedance of their respective GACs. Therefore, the subsoil was deemed suitable for use.

All transfer notes, providing evidence of source and import, will be provided in the final validation report when clean cover system installation is complete.

Thickness of Clean Cover

A small hole was dug in the gardens of Plots 1-7 at a rate of 1 pit per three plots, as per the above referenced remediation strategy. Photographs were taken of the cover system thickness in these areas, which was found to be equal to the required thickness with hi-vis woven geotextile membrane present – underlying the 600mm of soils is a no dig layer, the woven membrane was selected to mitigate the transition of fines from the soils migrating into the underlying aggregate layer. The photographs and confirmation of cover depth for Plots 1-7 are contained in the Verification Log in Appendix 4.

A development site layout plan, showing the locations of the gardens and soft landscaping areas, is contained in Appendix 1.

Cover System Validation Summary

On the basis of the information provided, it is confirmed that the clean cover system remediation objectives have been met for Plots 1-7. These will be included in a revision or addendum to this report once complete. No removal of site soils have been noted on site.
If any additional information is needed, do not hesitate to ask.

Yours sincerely,

James Harley MSci FGS
Geo-Environmental Engineer

Appendix 1 – Site Layout Plan
Appendix 2 – Chemical test results at source
Appendix 3 – Chemical test results at site
Appendix 4 – Verification Log – Plots 1-7
Appendix 5 – Soil Importation Tickets

APPENDIX 1

NOTES:
- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS, TOLERANCES & REFERENCES. ANY DISCREPANCY TO BE VERIFIED WITH THE ARCHITECT BEFORE PROCEEDING WITH THE WORKS.
- WHERE AN ITEM IS COVERED BY DRAWINGS OF DIFFERENT SCALES, THE LARGER SCALE DRAWING TO BE WORKED TO.
- DO NOT SCALE FROM THE DRAWING. FIGURED DIMENSIONS TO BE WORKED TO IN ALL CASES.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH:

Materials Key

- 450mm x 450mm concrete paving to front and 1800mm wide patios at rear of dwellings
- Tarmac areas
- Grassed areas
- Shrub planting
- Existing tree to be retained
- Existing tree to be removed
- New tree
- WB Water butt (volume to be a minimum of 200ltrs)
- S External storage (e.g.: bike)
- Dwelling bin storage (4x240l bin capacity)

Boundary Treatments

- 2100mm high concrete post and timber panel fence (used around existing electric substation)
- 1800mm high concrete post and timber panel fence (to separate rear gardens to a distance of 3000mm from the rear facade)
- 1500mm high concrete post with 1200mm high timber panel fence and 300mm timber trellis on top (used between rear gardens)
- 900mm high metal railings (from back of pavement to building line)
- 450mm high low brick wall with 450mm high metal railings, on low side (along back of pavement)

Existing Features

- LP Existing lamp post
- LP(R) Existing lamp post re-located

Schedule of Accommodation

Housetype	Description	Area/m2	Total	Plot Nos.
A	2B3P House	71.1	2	02, 03
B1	3B4P House	87.9	3	01, 05, 06
B2	3B4P House	90.8	1	07
C	4B5P House	102.4	1	04
Total			7	

(Car parking : 2 & 3-bed 100%; 4-bed 200% shown)

Tenure

- Affordable Rent (3no.)
- Social Rent (4no.)

Rev	Date	By
A Layout amended to where clouded. Existing tree retained to rear garden of Plot 05. 2 new trees added along Plot 07 boundary.	30.11.23	JH

Client:
One Manchester

Project:
Blackwin Street Development
Gorton

Description:
Proposed Site Plan

Purpose of issue:
PLANNING

Drawn by:	Checked by:	Scale:	
JH	MT	1:200@A1	
Date:	Project No:	Drawing No:	Rev:
Aug 22	20-050	02	A

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N

0m 4m 8m 16m 24m

APPENDIX 2

ANALYTICAL TEST REPORT

Report Number	24-03420, issue number 2
Contract name:	Lower Goliinrod farm
Client reference:	Goliinrod farm topsoil stockpile 1
Clients name:	Parkhouse Services
Clients address:	Parkhouse Services Lower Gollinrod Farm Walmersley Bury BL9 5NB
Samples received:	28/10/2024
Analysis started:	29/10/2024
Analysis completed:	05/11/2024
Report issued:	05/11/2024 replaces 24-03420-01

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

Approved by:

[redacted]

Abbie Neasham-Bourn
Senior Reporting Administrator

Abbie Neasham-Bourn
Senior Reporting
Administrator

Unit 6 Parkhead, Greencroft Industrial Park, Stanley, County Durham, DH9 7YB

Telephone: (01207) 528578, Email supportsquad@chemtech-env.co.uk

SAMPLE INFORMATION

MCERTS (Soils):

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

Lab ref	Sample ID	Depth (m)	Sample description	Material removed	% Removed	% Moisture
19980	SP1 Sample 1	-	Brown Sandy Loam with Gravel and Vegetation.	-	-	40.2

DEVIATING SAMPLE INFORMATION

Comments

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

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

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

Key

a	Sampling date not provided
b	Sampling time not provided (waters only)
c	Sample not received in appropriate containers
d	Storage Temperature
e	Headspace present in sample container
f	Sample exceeded sampling to reciept
g	Sample exceeded holding time(s)

Lab ref	Sample ID	Depth (m)	Deviating	Tests (Reason for deviation)
19980	SP1 Sample 1	-	N	

SOILS

Lab Number					19980
Client Reference					Dry Soil
Sample ID					SP1 Sample 1
Sampling Date					25/10/2024
Test	**Method**	**Accred**	**LoD**	**Units**	
Asbestos					
Asbestos Identification	SUBCON	SU	0	-	NAD
Metals					
Arsenic	CE264	U	1.8	mg/kg	< 1.8
Barium	CE264	U	1.9	mg/kg	35.7
Cadmium	CE264	M	1.6	mg/kg	< 1.6
Chromium	CE264	U	2	mg/kg	18.8
Copper	CE264	M	1.6	mg/kg	20.3
Lead	CE264	U	2.3	mg/kg	15.6
Mercury	CE264	U	0.7	mg/kg	< 0.7
Nickel	CE264	M	2.1	mg/kg	4.4
Selenium	CE264	U	3	mg/kg	< 3.0
Vanadium	CE264	U	1.8	mg/kg	10.4
Zinc	CE264	M	4	mg/kg	52.0
pH	CE004	M	0.1	pH units	7.2
Acid Soluble Sulphate (SO4)	CE062	M	100	mg/kg	1850
Total Monohydric Phenols	CE078	N	0.5	mg/kg	< 0.50
Total Cyanide	CE077	N	1	mg/kg	< 1.0
Free Cyanide	CE077	N	1	mg/kg	< 1.0
TPH Ali/Aro					
>C5-C6 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C6-C8 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C8-C10 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C10-C12 Aliphatic (EH_2D_AL)	CE250	N	1	mg/kg	1.2
>C12-C16 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	7.9
>C16-C21 Aliphatic (EH_2D_AL)	CE250	N	0.7	mg/kg	31.1
>C21-C35 Aliphatic (EH_2D_AL)	CE250	N	4	mg/kg	248
>C35-C44 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	33.1
>C6-C7 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C7-C8 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C8-C10 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010

SOILS

>C10-C12 Aromatic (EH_2D_AR)	CE250	N	0.6	mg/kg	5.6
>C12-C16 Aromatic (EH_2D_AR)	CE250	N	1	mg/kg	27.4
>C16-C21 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	30.4
>C21-C35 Aromatic (EH_2D_AR)	CE250	N	4.5	mg/kg	214
>C35-C44 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	132
Toatl Aliphatics C5-C44 (HS_1D+EH_2D_AL)	CE250	N	5	mg/kg	321.3
Toatl Aromatics C5-C44 (HS_1D+EH_2D_AL)	CE250	N	10	mg/kg	409.4
Toatl Hydrocarbons C5-C44 (HS_1D+EH_2D_AL)	CE250	N	15	mg/kg	730.7
Polyaromatic hydrocarbons					
Naphthalene	CE087	M	0.016	mg/kg	< 0.016
Acenaphthylene	CE087	M	0.015	mg/kg	< 0.015
Acenaphthene	CE087	M	0.013	mg/kg	0.036
Fluorene	CE087	U	0.013	mg/kg	0.032
Phenanthrene	CE087	M	0.014	mg/kg	0.379
Anthracene	CE087	U	0.017	mg/kg	0.113
Fluoranthene	CE087	M	0.017	mg/kg	0.588
Pyrene	CE087	M	0.016	mg/kg	0.487
Benzo(a)anthracene	CE087	U	0.012	mg/kg	0.244
Chrysene	CE087	M	0.028	mg/kg	0.299
Benzo(b)fluoranthene	CE087	M	0.02	mg/kg	0.324
Benzo(k)fluoranthene	CE087	M	0.025	mg/kg	0.133
Benzo(a)pyrene	CE087	U	0.019	mg/kg	0.252
Indeno(1,2,3-cd)pyrene	CE087	M	0.019	mg/kg	0.205
Dibenzo(a,h)anthracene	CE087	M	0.017	mg/kg	0.045
Benzo(g,h,i)perylene	CE087	M	0.019	mg/kg	0.195
Total PAH(16)	CE087	N	0.28	mg/kg	3.33

SOIL VOCS

Lab Number					19980
Client Reference					Dry Soil
Sample ID					SP1 Sample 1
Sampling Date					25/10/2024
Test	**Method**	**Accred**	**LoD**	**Units**	
VOC					
Benzene	CE174	N	0.01	mg/kg	< 0.010
Toluene	CE174	N	0.01	mg/kg	< 0.010
Ethylbenzene	CE174	N	0.01	mg/kg	< 0.010
m,p-Xylene	CE174	N	0.01	mg/kg	< 0.010
o-xylene	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloroethane	CE174	N	0.01	mg/kg	< 0.010
Chloroform	CE174	N	0.01	mg/kg	< 0.010
Tetrachloromethane	CE174	N	0.01	mg/kg	< 0.010
1,1,1-Trichloroethane	CE174	N	0.01	mg/kg	< 0.010
Trichloroethylene	CE174	N	0.01	mg/kg	< 0.010
Tetrachloroethylene	CE174	N	0.01	mg/kg	< 0.010
Chlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Bromobenzene	CE174	N	0.01	mg/kg	< 0.010
Bromodichloromethane	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloro-1-propene	CE174	N	0.01	mg/kg	< 0.010
Trans - 1-2 -dichloroethylene	CE174	N	0.01	mg/kg	< 0.010
2,2-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
Bromochloromethane	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichloroethane	CE174	N	0.01	mg/kg	< 0.010
Dibromomethane	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
1,1,2-Trichloroethane	CE174	N	0.01	mg/kg	< 0.010
Dibromochloromethane	CE174	N	0.01	mg/kg	< 0.010
1,3-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
1,2-dibromoethane	CE174	N	0.01	mg/kg	< 0.010
Styrene	CE174	N	0.01	mg/kg	< 0.010
Propylbenzene	CE174	N	0.01	mg/kg	< 0.010
2-Chlorotoluene	CE174	N	0.01	mg/kg	< 0.010
1,2,4-Trimethylbenzene	CE174	N	0.01	mg/kg	< 0.010
4-Chlorotoluene	CE174	N	0.01	mg/kg	< 0.010

SOIL VOCS

t-butylbenzene	CE174	N	0.01	mg/kg	< 0.010
1,3,5-Trimethylbenzene	CE174	N	0.01	mg/kg	< 0.010
1,3-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Butylbenzene	CE174	N	0.01	mg/kg	< 0.010
Hexachlorobutadiene	CE174	N	0.01	mg/kg	< 0.010
1-2-3 - Trichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Naphthalene	CE174	N	0.01	mg/kg	< 0.010
1-2-4 - Trichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
1,4-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Bromoform	CE174	N	0.01	mg/kg	< 0.010
1,2-Dibromo-3-Chloropropane	CE174	N	0.01	mg/kg	< 0.010
4-Isopropyltoluene_(p-Cymene)	CE174	N	0.01	mg/kg	< 0.010
1,1,1,2-Tetrachloroethane	CE174	N	0.01	mg/kg	< 0.010
Bromomethane	CE174	N	0.03	mg/kg	< 0.030
Chloroethane	CE174	N	0.01	mg/kg	< 0.010
Chloromethane	CE174	N	0.01	mg/kg	< 0.010
Cis-1,2-Dichloroethene	CE174	N	0.01	mg/kg	< 0.010
cis-1,3-Dichloro-1-Propene	CE174	N	0.01	mg/kg	< 0.010
1,1,2,2-Tetrachloroethane	CE174	N	0.01	mg/kg	< 0.010
Dichlorodifluoromethane_(CFC-12)	CE174	N	0.01	mg/kg	< 0.010
Dichloromethane	CE174	N	0.01	mg/kg	< 0.010
Isopropylbenzene_(Cumene)	CE174	N	0.01	mg/kg	< 0.010
MTBE	CE174	N	0.01	mg/kg	< 0.010
sec-Butylbenzene	CE174	N	0.01	mg/kg	< 0.010
trans-1,3-Dichloro-1-Propene	CE174	N	0.01	mg/kg	< 0.010
Trichlorofluoromethane_(CFC-11)	CE174	N	0.01	mg/kg	< 0.010
Vinyl chloride	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloroethene	CE174	N	0.01	mg/kg	< 0.010
1,2,3-Trichloropropane	CE174	N	0.01	mg/kg	< 0.010

DECLARATION OF COMPLIANCE (BS3882:2015)

Lab ref	19980	**Date received**	28/10/2024
Contract name	24-03420	**Analysis started**	01/11/2024
Sample ID		**Analysis completed**	30/10/2024
OS Grid reference	Not supplied	**Report issued**	05/11/2024
Date sampled	25/10/2024		

Test	**Units**	**Result**	**Compliant with Multipurpose? (Y/N)**	**Compliant with specific purpose? (Y/N)**				
				Acidic	**Calcareous**	**Low Fertility**	**Low F Acidic**	**Low F Calcareous**
Texture								
Clay content	% w/w	5						
Silt content	% w/w	10						
Sand content	% w/w	85						
Soil texture	**class**							

Stone content								
>2mm	% w/w	4.2	Y	Y	Y	Y	Y	Y
>20mm	% w/w	0	Y	Y	Y	Y	Y	Y
>50mm	% w/w	0	Y	Y	Y	Y	Y	Y

Mass loss on ignition								
Clay 5-20%	% w/w	12.4	Y	Y	Y	Y	Y	Y
Clay 20-35%	% w/w	-	-	-	-	-	-	-
pH[1]	pH units	7.2	Y	N	N	Y	N	N
Carbonate (calcareous only)	% w/w $CaCO_3$	21.0			Y			Y
Nitrogen (total)	% w/w N	0.83	Y	Y	Y			
Carbon:Nitrogen ratio	-	16.8	Y	Y	Y	Y	Y	Y
Phosphorus (extractable)	mg/l P	84	Y	Y	Y	N	N	N
Potassium (extractable)	mg/l K	1400	Y	Y	Y			
Magnesium (extractable)	mg/l Mg	238	Y	Y	Y			
Electrical conductivity[2]	µS/cm	1950	Y					

Phytotoxic contaminants (by soil pH)								
Copper (Nitric acid extract)	mg/kg Cu	37	Y	Y	Y	Y	Y	Y
Nickel (Nitric acid extract)	mg/kg Ni	7	Y	Y	Y	Y	Y	Y
Zinc (Nitric acid extract)	mg/kg Zn	102	Y	Y	Y	Y	Y	Y

VISIBLE CONTAMINANTS								
(air-dried soil)	% w/w	<0.1	Y	Y	Y	Y	Y	Y
...of which plastics	% w/w	0	Y	Y	Y	Y	Y	Y
Sharps	% w/w	None	Y	Y	Y	Y	Y	Y

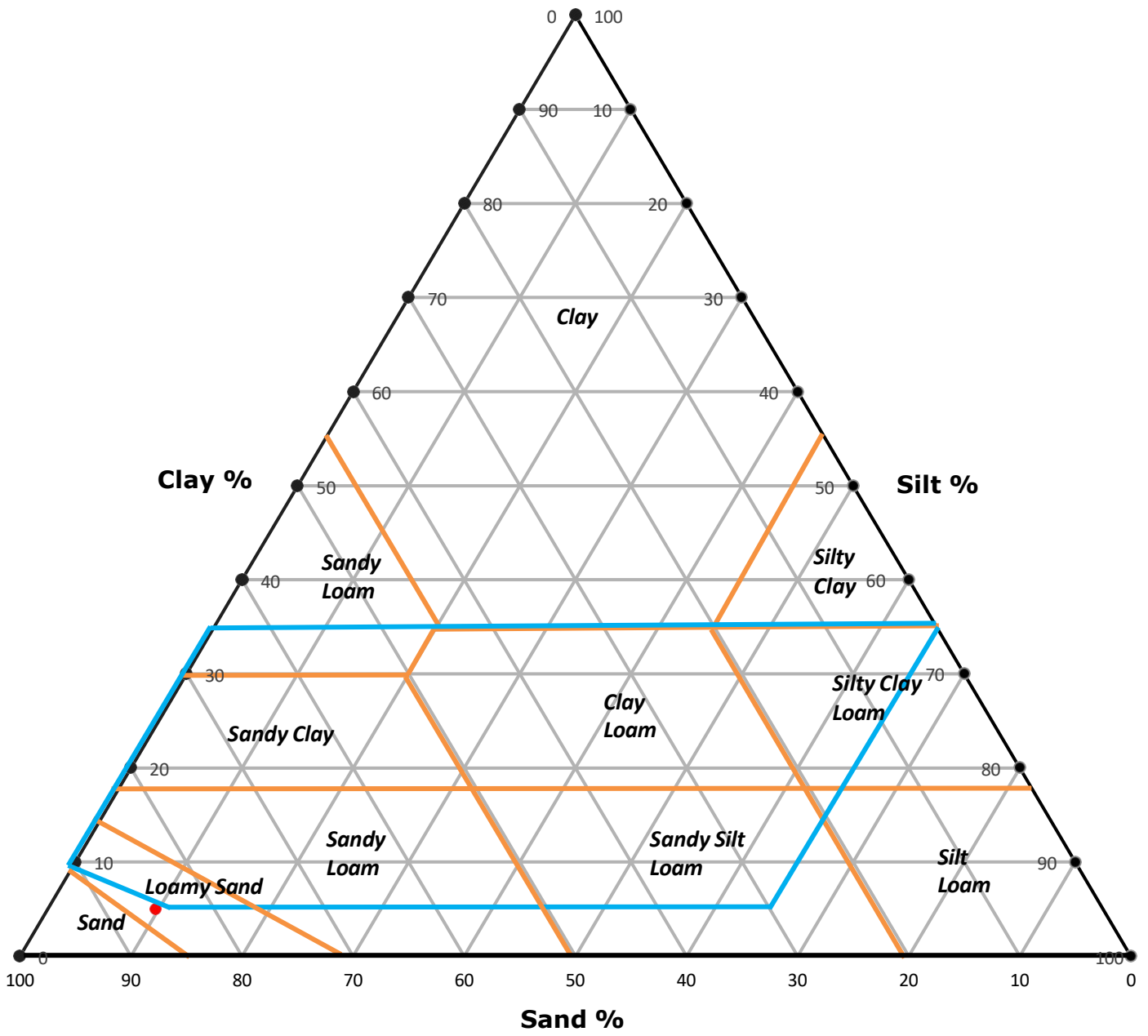
[1] Results are accredited to MCERTS if matrix confirmed as soil
[2] Results in leachate are accredited to ISO17025

Disclaimer: The limits in this report are provided for guidance only and values are transcribed from BS3882:2015

Chemtech Environmental Ltd does not take responsibility for any errors or omissions in the transcription, and all data should be verified by the end user.

Any assessments made are based on the published results from the Laboratory and make no assessment of uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. Method uncertainty levels can be provided independently upon request.

Assessment is outside the scope of the laboratory's UKAS accreditation.



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METHOD DETAILS

METHOD	TESTNAME	METHOD SUMMARY	ANALYSIS BASIS
CE267	VPH in Soil	HS-GCFID	As submitted sample
SUBCON	Asbestos Solid	HSG248	Air Dried Sample
CE007	Electrical conductivity of Solids	Potentiometric	As submitted sample
CE088	Extractable Cations - BS3882	Ammonium Nitrate Extraction and ICPOES	Air dried sample
CE174	VOC in solids	HS-GCMS	As submitted sample
CE089	Extractable Phosphorus - BS3882	Sodium Hydrogen Carbonate extraction andd ICPOES	Air dried sample
CE062	Acid Soluble Sulphate in Solids	Primacs	Air dried sample
CE264	Metals by ICP in Soil	ICPOES	Air dried sample
CE250	GCXGC in Solids	DCM Extraction and GCxGC-FID	As submitted sample
CE087	PAH in Soil	DCM Extraction and GCMS	As submitted sample
CE078	Phenols in Solids	Continuous Flow Analyser	As submitted sample
CE077	Cyanides in Solids	Continuous Flow Analyser	As submitted sample
CE197	Primacs in Solids	Primacs	Air dried sample
CE006	Loss on ignition at 440 deg C	Gravimetric	Air dried sample

REPORT INFORMATION

Report No.:24-03420, issue number 2

Key	
U	ISO17025 Accredited Result
M	ISO17025 and MCERTS Accredited Result
N	Do not currently hold accreditation
^	MCERTS accreditation not applicable for sample matrix
*	ISO17025 accreditation not applicable for sample matrix
S	Subcontracted
I/S	Insufficient Sample
U/S	Unsuitable sample
N/T	Not tested
<	Means "less than"
>	Means "greater than"

LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.

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

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

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

The results relate only to the sample received.

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Moisture Content Calculated on a Wet Weight basis

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

Sampling was undertaken by Chemtech Environmental Limited and is outside the UKAS accreditation scope.

Methods, procedures and performance data are available on request.

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

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

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

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

Sample Retention and Disposal

All soil samples will be retained for a period of 4 weeks from the point of receipt

All water samples will be retained for a period of 2 weeks from the point of Reporting

Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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 & 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 (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Statement of Conformity

Statement of Conformity

Where Chemtech reports a statement of conformity to a specification, the decision rules applied are derived from the Ilac document ILAC G8:09/2019.

Acceptance limits (AL), applied are derived from the tolerance limits (TL) by you the client or applicable standard (e.g. 2003.33.EC Council Decision, BS3882, BS8601)

Agreed and reported Decision Rule:

"PASS" if the result < TL, and the bias / precision values for the process meet the targets defined within the methodology and/or applied accreditation.

Reported Decisions:

Result < TL for determinands: PASS
Result > TL for determinands: FAIL

Definitions Used:

Acceptance limit (AL) Specified upper or lower bounds of permissible measured quantity values.
Tolerance limit (TL) Specified upper or lower bound of permissible values of a property.

Accreditation of WAC/BS3882/BS8601

Accreditation in Soil to MCERTS is only applicable for specific matrix types identified as soil (Sand/Loam/Clay) during the sample assessment

If the sample is classified as not soil, not accreditation is conveyed

ANALYTICAL TEST REPORT

Report Number	24-03423, issue number 2
Contract name:	Lower Goliinrod farm
Client reference:	Goliinrod farm topsoil stockpile 2
Clients name:	Parkhouse Services
Clients address:	Parkhouse Services Lower Gollinrod Farm Walmersley Bury BL9 5NB
Samples received:	28/10/2024
Analysis started:	29/10/2024
Analysis completed:	05/11/2024
Report issued:	05/11/2024 Replaces 24-03423-01

Key

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

[redacted]

Approved by: Abbie Neasham-Bourn
Senior Reporting Administrator

Abbie Neasham-Bourn
Senior Reporting Administrator

Unit 6 Parkhead, Greencroft Industrial Park, Stanley, County Durham, DH9 7YB

Telephone: (01207) 528578, Email supportsquad@chemtech-env.co.uk

SAMPLE INFORMATION

MCERTS (Soils):

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

Lab ref	Sample ID	Depth (m)	Sample description	Material removed	% Removed	% Moisture
19983	SP2 Sample 1	-	Brown Sandy Loam with Gravel and Vegetation.	-	-	19.0

DEVIATING SAMPLE INFORMATION

Comments

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

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

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

Key

a	Sampling date not provided
b	Sampling time not provided (waters only)
c	Sample not received in appropriate containers
d	Storage Temperature
e	Headspace present in sample container
f	Sample exceeded sampling to reciept
g	Sample exceeded holding time(s)

Lab ref	Sample ID	Depth (m)	Deviating	Tests (Reason for deviation)
19983	SP2 Sample 1	-	N	

SOILS

Lab Number					19983
Client Reference					dry soil
Sample ID					SP2 Sample 1
Sampling Date					25/10/2024
Test	**Method**	**Accred**	**LoD**	**Units**	
Asbestos					
Asbestos Identification	SUBCON	SU	0	-	NAD
Metals					
Arsenic	CE264	U	1.8	mg/kg	15.4
Barium	CE264	U	1.9	mg/kg	171
Cadmium	CE264	M	1.6	mg/kg	< 1.6
Chromium	CE264	U	2	mg/kg	68.6
Copper	CE264	M	1.6	mg/kg	72.0
Lead	CE264	U	2.3	mg/kg	110
Mercury	CE264	U	0.7	mg/kg	< 0.7
Nickel	CE264	M	2.1	mg/kg	19.8
Selenium	CE264	M	3	mg/kg	< 3.0
Vanadium	CE264		1.8	mg/kg	37.3
Zinc	CE264	M	4	mg/kg	98.4
pH	CE004	M	0.1	pH units	5.9
Acid Soluble Sulphate (SO4)	CE062	M	100	mg/kg	1190
Total Monohydric Phenols	CE078	N	0.5	mg/kg	0.53
Total Cyanide	CE077	N	1	mg/kg	< 1.0
Free Cyanide	CE077	N	1	mg/kg	< 1.0
TPH Ali/Aro					
>C5-C6 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C6-C8 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C8-C10 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C10-C12 Aliphatic (EH_2D_AL)	CE250	N	1	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	2.2
>C16-C21 Aliphatic (EH_2D_AL)	CE250	N	0.7	mg/kg	6
>C21-C35 Aliphatic (EH_2D_AL)	CE250	N	4	mg/kg	22.5
>C35-C44 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	3.7
>C6-C7 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C7-C8 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010

SOILS

>C8-C10 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C10-C12 Aromatic (EH_2D_AR)	CE250	N	0.6	mg/kg	3.4
>C12-C16 Aromatic (EH_2D_AR)	CE250	N	1	mg/kg	15.7
>C16-C21 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	61.3
>C21-C35 Aromatic (EH_2D_AR)	CE250	N	4.5	mg/kg	198
>C35-C44 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	59.1
Toatl Aliphatics C5-C44 (HS_1D+EH_2D_AL)	CE250	N	5	mg/kg	34.4
Toatl Aromatics C5-C44 (HS_1D+EH_2D_AL)	CE250	N	10	mg/kg	337.5
Toatl Hydrocarbons C5-C44 (HS_1D+EH_2D_AL)	CE250	N	15	mg/kg	371.9
Polyaromatic hydrocarbons					
Naphthalene	CE087	M	0.016	mg/kg	0.352
Acenaphthylene	CE087	M	0.015	mg/kg	< 0.015
Acenaphthene	CE087	M	0.013	mg/kg	0.864
Fluorene	CE087	U	0.013	mg/kg	0.493
Phenanthrene	CE087	M	0.014	mg/kg	5.11
Anthracene	CE087	U	0.017	mg/kg	1.32
Fluoranthene	CE087	M	0.017	mg/kg	7.84
Pyrene	CE087	M	0.016	mg/kg	7.12
Benzo(a)anthracene	CE087	U	0.012	mg/kg	3.04
Chrysene	CE087	M	0.028	mg/kg	3.41
Benzo(b)fluoranthene	CE087	M	0.02	mg/kg	2.1
Benzo(k)fluoranthene	CE087	M	0.025	mg/kg	1.55
Benzo(a)pyrene	CE087	U	0.019	mg/kg	1.57
Indeno(1,2,3-cd)pyrene	CE087	M	0.019	mg/kg	2.71
Dibenzo(a,h)anthracene	CE087	M	0.017	mg/kg	0.210
Benzo(g,h,i)perylene	CE087	M	0.019	mg/kg	2.45
Total PAH(16)	CE087	N	0.28	mg/kg	44.1

SOIL VOCS

Lab Number					19983
Client Reference					dry soil
Sample ID					SP2 Sample 1
Sampling Date					25/10/2024
Test	**Method**	**Accred**	**LoD**	**Units**	
VOC					
Benzene	CE174	N	0.01	mg/kg	< 0.010
Toluene	CE174	N	0.01	mg/kg	< 0.010
Ethylbenzene	CE174	N	0.01	mg/kg	< 0.010
m,p-Xylene	CE174	N	0.01	mg/kg	< 0.010
o-xylene	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloroethane	CE174	N	0.01	mg/kg	< 0.010
Chloroform	CE174	N	0.01	mg/kg	< 0.010
Tetrachloromethane	CE174	N	0.01	mg/kg	< 0.010
1,1,1-Trichloroethane	CE174	N	0.01	mg/kg	< 0.010
Trichloroethylene	CE174	N	0.01	mg/kg	< 0.010
Tetrachloroethylene	CE174	N	0.01	mg/kg	< 0.010
Chlorobenzene	CE174		0.01	mg/kg	< 0.010
Bromobenzene	CE174	N	0.01	mg/kg	< 0.010
Bromodichloromethane	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloro-1-propene	CE174	N	0.01	mg/kg	< 0.010
Trans - 1-2 -dichloroethylene	CE174	N	0.01	mg/kg	< 0.010
2,2-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
Bromochloromethane	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichloroethane	CE174	N	0.01	mg/kg	< 0.010
Dibromomethane	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
1,1,2-Trichloroethane	CE174	N	0.01	mg/kg	< 0.010
Dibromochloromethane	CE174	N	0.01	mg/kg	< 0.010
1,3-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
1,2-dibromoethane	CE174	N	0.01	mg/kg	< 0.010
Styrene	CE174	N	0.01	mg/kg	< 0.010
Propylbenzene	CE174	N	0.01	mg/kg	< 0.010
2-Chlorotoluene	CE174	N	0.01	mg/kg	< 0.010

SOIL VOCS

1,2,4-Trimethylbenzene	CE174	N	0.01	mg/kg	< 0.010
4-Chlorotoluene	CE174	N	0.01	mg/kg	< 0.010
t-butylbenzene	CE174	N	0.01	mg/kg	< 0.010
1,3,5-Trimethylbenzene	CE174	N	0.01	mg/kg	< 0.010
1,3-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Butylbenzene	CE174	N	0.01	mg/kg	< 0.010
Hexachlorobutadiene	CE174	N	0.01	mg/kg	< 0.010
1-2-3 - Trichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Naphthalene	CE174	N	0.01	mg/kg	< 0.010
1-2-4 - Trichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
1,4-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Bromoform	CE174	N	0.01	mg/kg	< 0.010
1,2-Dibromo-3-Chloropropane	CE174	N	0.01	mg/kg	< 0.010
4-Isopropyltoluene_(p-Cymene)	CE174	N	0.01	mg/kg	< 0.010
1,1,1,2-Tetrachloroethane	CE174	N	0.01	mg/kg	< 0.010
Bromomethane	CE174	N	0.03	mg/kg	< 0.030
Chloroethane	CE174	N	0.01	mg/kg	< 0.010
Chloromethane	CE174	N	0.01	mg/kg	< 0.010
Cis-1,2-Dichloroethene	CE174	N	0.01	mg/kg	< 0.010
cis-1,3-Dichloro-1-Propene	CE174	N	0.01	mg/kg	< 0.010
1,1,2,2-Tetrachloroethane	CE174	N	0.01	mg/kg	< 0.010
Dichlorodifluoromethane_(CFC-12)	CE174	N	0.01	mg/kg	< 0.010
Dichloromethane	CE174	N	0.01	mg/kg	< 0.010
Isopropylbenzene_(Cumene)	CE174	N	0.01	mg/kg	< 0.010
MTBE	CE174	N	0.01	mg/kg	< 0.010
sec-Butylbenzene	CE174	N	0.01	mg/kg	< 0.010
trans-1,3-Dichloro-1-Propene	CE174	N	0.01	mg/kg	< 0.010
Trichlorofluoromethane_(CFC-11)	CE174	N	0.01	mg/kg	< 0.010
Vinyl chloride	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloroethene	CE174	N	0.01	mg/kg	< 0.010
1,2,3-Trichloropropane	CE174	N	0.01	mg/kg	< 0.010

DECLARATION OF COMPLIANCE (BS3882:2015)

CHEMTECH environmental part of Cawood

Lab ref	19983	**Date received**	28/10/2024
Contract name	24-03423	**Analysis started**	01/11/2024
Sample ID		**Analysis completed**	30/10/2024
OS Grid reference	Not supplied	**Report issued**	05/11/2024
Date sampled	25/10/2024		

Test	**Units**	**Result**	**Compliant with Multipurpose? (Y/N)**	**Compliant with specific purpose? (Y/N)**				
				Acidic	**Calcareous**	**Low Fertility**	**Low F Acidic**	**Low F Calcareous**
Texture								
Clay content	% w/w	15						
Silt content	% w/w	31						
Sand content	% w/w	55						
Soil texture	**class**	**SANDY LOAM**	Y	Y	Y	Y	Y	Y
Stone content								
>2mm	% w/w	7	Y	Y	Y	Y	Y	Y
>20mm	% w/w	0	Y	Y	Y	Y	Y	Y
>50mm	% w/w	0	Y	Y	Y	Y	Y	Y
Mass loss on ignition								
Clay 5-20%	% w/w	13.0	Y	Y	Y	Y	Y	Y
Clay 20-35%	% w/w	-	-	-	-	-	-	-
pH[1]	pH units	5.9	Y	N	N	Y	N	N
Carbonate (calcareous only)	% w/w $CaCO_3$	3.8			Y			Y
Nitrogen (total)	% w/w N	0.31	Y	Y	Y			
Carbon:Nitrogen ratio	-	18.4	Y	Y	Y	Y	Y	N
Phosphorus (extractable)	mg/l P	95	Y	Y	Y	N	N	N
Potassium (extractable)	mg/l K	261	Y	Y	Y			
Magnesium (extractable)	mg/l Mg	117	Y	Y	Y			
Electrical conductivity[2]	µS/cm	483	Y					
Phytotoxic contaminants (by soil pH)								
Copper (Nitric acid extract)	mg/kg Cu	76	Y	Y	Y	Y	Y	Y
Nickel (Nitric acid extract)	mg/kg Ni	18	Y	Y	Y	Y	Y	Y
Zinc (Nitric acid extract)	mg/kg Zn	102	Y	Y	Y	Y	Y	Y
VISIBLE CONTAMINANTS								
(air-dried soil)	% w/w	<0.1	Y	Y	Y	Y	Y	Y
...of which plastics	% w/w	0	Y	Y	Y	Y	Y	Y
Sharps	% w/w	None	Y	Y	Y	Y	Y	Y

[1] Results are accredited to MCERTS if matrix confirmed as soil
[2] Results in leachate are accredited to ISO17025

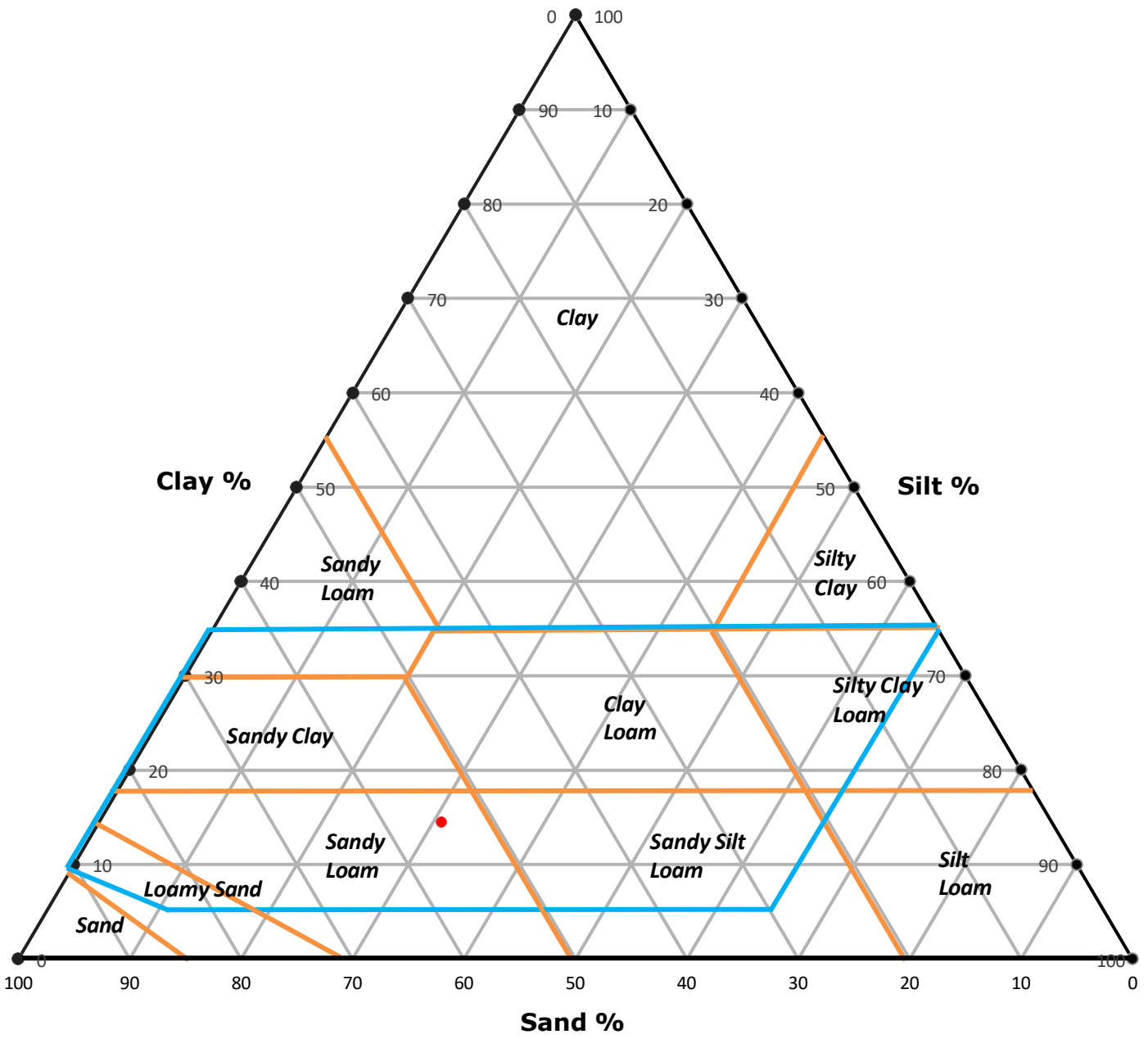
Disclaimer: The limits in this report are provided for guidance only and values are transcribed from BS3882:2015

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Assessment is outside the scope of the laboratory's UKAS accreditation.

DECLARATION OF COMPLIANCE
(BS3882:2015)



Unit 6 Parkhead, Greencroft Industrial Park, Stanley, County Durham, DH9 7YB
Tel 01207 528578 Email customerservices@chemtech-env.co.uk
Vat Reg No. 772 5703 18 Registered in England number 4284013

METHOD DETAILS

METHOD	TESTNAME	METHOD SUMMARY	ANALYSIS BASIS
CE267	VPH in Soil	HS-GCFID	As submitted sample
SUBCON	Asbestos Solid	HSG248	Air Dried Sample
CE007	Electrical conductivity of Solids	Potentiometric	As submitted sample
CE088	Extractable Cations - BS3882	Ammonium Nitrate Extraction and ICPOES	Air dried sample
CE174	VOC in solids	HS-GCMS	As submitted sample
CE089	Extractable Phosphorus - BS3882	Sodium Hydrogen Carbonate extraction andd ICPOES	Air dried sample
CE062	Acid Soluble Sulphate in Solids	Primacs	Air dried sample
CE264	Metals by ICP in Soil	ICPOES	Air dried sample
CE250	GCXGC in Solids	DCM Extraction and GCxGC-FID	As submitted sample
CE087	PAH in Soil	DCM Extraction and GCMS	As submitted sample
CE078	Phenols in Solids	Continuous Flow Analyser	As submitted sample
CE077	Cyanides in Solids	Continuous Flow Analyser	As submitted sample
CE197	Primacs in Solids	Primacs	Air dried sample
CE006	Loss on ignition at 440 deg C	Gravimetric	Air dried sample

REPORT INFORMATION

Report No.:24-03423, issue number 2

Key	
U	ISO17025 Accredited Result
M	ISO17025 and MCERTS Accredited Result
N	Do not currently hold accreditation
^	MCERTS accreditation not applicable for sample matrix
*	ISO17025 accreditation not applicable for sample matrix
S	Subcontracted
I/S	Insufficient Sample
U/S	Unsuitable sample
N/T	Not tested
<	Means "less than"
>	Means "greater than"

LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.

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Moisture Content Calculated on a Wet Weight basis

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

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

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

Sample Retention and Disposal

All soil samples will be retained for a period of 4 weeks from the point of receipt

All water samples will be retained for a period of 2 weeks from the point of Reporting

Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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 & 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 (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Statement of Conformity

Statement of Conformity

Where Chemtech reports a statement of conformity to a specification, the decision rules applied are derived from the Ilac document ILAC G8:09/2019.

Acceptance limits (AL), applied are derived from the tolerance limits (TL) by you the client or applicable standard (e.g. 2003.33.EC Council Decision, BS3882, BS8601)

Agreed and reported Decision Rule:

"PASS" if the result < TL, and the bias / precision values for the process meet the targets defined within the methodology and/or applied accreditation.

Reported Decisions:

Result < TL for determinands: PASS
Result > TL for determinands: FAIL

Definitions Used:

Acceptance limit (AL) Specified upper or lower bounds of permissible measured quantity values.
Tolerance limit (TL) Specified upper or lower bound of permissible values of a property.

Accreditation of WAC/BS3882/BS8601

Accreditation in Soil to MCERTS is only applicable for specific matrix types identified as soil (Sand/Loam/Clay) during the sample assessment
If the sample is classified as not soil, not accreditation is conveyed

ANALYTICAL TEST REPORT

Report Number	24-03293, issue number 3
Contract name:	Wincham Yard Sub Soi
Client reference:	WYSS Stockpile 2
Clients name:	UK Aggregates & Plant
Clients address:	UK Aggregates & Plant First floor, Merchant Exchange Waters Green Macclesfield Cheshire SK11 6JX
Samples received:	24/10/2024
Analysis started:	24/10/2024
Analysis completed:	05/11/2024
Report issued:	14/11/2024
	3. Replaces Analytical Report number 24-03293; issue no.2

Key	U UKAS accredited test M MCERTS & UKAS accredited test $ Test carried out by an approved subcontractor I/S Insufficient sample to carry out test U/S Sample not suitable for testing NAD No Asbestos Detected
Approved by:	[redacted] Abbie Neasham-Bourn Senior Reporting Administrator

Unit 6 Parkhead, Greencroft Industrial Park, Stanley, County Durham, DH9 7YB

Telephone: (01207) 528578, Email supportsquad@chemtech-env.co.uk

Re-Issue Summary

Client: UK Aggregates & Plant
Address: First floor, Merchant Exchange, Waters Green, Macclesfield, Cheshire, SK11 6JX

Date: **14-Nov-24**

Report No.: **24-03293**

Issue: **3**

This report replaces 24-03293, issue: 2, issued: 05 November 2024

Reason for Change
2. Client Request- Analysis removed

Details of Changes to Job / Samples

Sample Ref	Field Name	Previous Data	New Data	Reason	Changed
19287	ISSUEREASN	2. Client	14/11/2024		

Details of Changes to Work / Results

Sample Refs:	19287
Tests* / Dets*:	
Extractable Cations -	
Extractable Phosphorus -	
Exchangeable Sodium	A
GCXGC in Solids	
Copper (HNO3	X
Nickel (HNO3 Extractable)	X
Zinc (HNO3 Extractable)	X
PAH in Soil	
Asbestos Solid	
VOC in solids	

Key
A - Additional Work added
D - Work Deleted
E - Result Edited*
R - Work Repeated*

*If a result changed, please refer to the previous report for the old result. The new result will be shown in this report.

Re-issued by: Will Fardon
Technical Director

[redacted]

Approved by: Will Fardon
Technical Director

[redacted]

SAMPLE INFORMATION

MCERTS (Soils):

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

Lab ref	Sample ID	Depth (m)	Sample description	Material removed	% Removed	% Moisture
19287	SP2 SAMPLE 1	-	Brown Sandy Clay with Gravel and Vegetation.	-	-	10.7

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.
For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.
Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

a	Sampling date not provided
b	Sampling time not provided (waters only)
c	Sample not received in appropriate containers
d	Storage Temperature
e	Headspace present in sample container
f	Sample exceeded sampling to reciept
g	Sample exceeded holding time(s)

Lab ref	Sample ID	Depth (m)	Deviating	Tests (Reason for deviation)
19287	SP2 SAMPLE 1	-	N	

SOILS

Lab Number					19287
Client Reference					DRY SOIL
Sample ID					SP2 SAMPLE 1
Sampling Date					17/10/2024
Test	**Method**	**Accred**	**LoD**	**Units**	
Asbestos					
Asbestos Identification	SUBCON	SU	0	-	NAD
Metals					
Arsenic	CE264	U	1.8	mg/kg	6.1
Barium	CE264	U	1.9	mg/kg	119
Cadmium	CE264	M	1.6	mg/kg	< 1.6
Chromium	CE264	U	2	mg/kg	72.8
Copper	CE264	M	1.6	mg/kg	32.5
Lead	CE264	U	2.3	mg/kg	81.3
Mercury	CE264	U	0.7	mg/kg	< 0.7
Nickel	CE264	M	2.1	mg/kg	14.8
Selenium	CE264	U	3	mg/kg	< 3.0
Vanadium	CE264	U	1.8	mg/kg	38.8
Zinc	CE264	M	4	mg/kg	67.9
pH	CE004	M	0.1	pH units	8.0
Acid Soluble Sulphate (SO4)	CE062	M	100	mg/kg	530
Total Monohydric Phenols	CE078	N	0.5	mg/kg	< 0.50
Total Cyanide	CE077	N	1	mg/kg	< 1.0
Free Cyanide	CE077	N	1	mg/kg	< 1.0
TPH Ali/Aro					
>C5-C6 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C6-C8 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C8-C10 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C10-C12 Aliphatic (EH_2D_AL)	CE250	N	1	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	< 0.5
>C16-C35 Aliphatic (EH_2D_AL)	CE250	N	3	mg/kg	< 3.0
>C35-C44 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	< 0.5
>C6-C7 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C7-C8 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C8-C10 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C10-C12 Aromatic (EH_2D_AR)	CE250	N	0.6	mg/kg	0.9

SOILS

>C12-C16 Aromatic (EH_2D_AR)	CE250	N	1	mg/kg	3.9
>C16-C21 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	8.9
>C21-C35 Aromatic (EH_2D_AR)	CE250	N	4.5	mg/kg	27.3
>C35-C44 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	7
Toatl Aliphatics C5-C44 (HS_1D+EH_2D_AL)	CE250	N	5	mg/kg	< 5
Toatl Aromatics C5-C44 (HS_1D+EH_2D_AL)	CE250	N	10	mg/kg	48
Toatl Hydrocarbons C5-C44 (HS_1D+EH_2D_AL)	CE250	N	15	mg/kg	48
Polyaromatic hydrocarbons					
Naphthalene	CE087	M	0.016	mg/kg	< 0.016
Acenaphthylene	CE087	M	0.015	mg/kg	0.017
Acenaphthene	CE087	M	0.013	mg/kg	0.060
Fluorene	CE087	U	0.013	mg/kg	0.059
Phenanthrene	CE087	M	0.014	mg/kg	0.935
Anthracene	CE087	U	0.017	mg/kg	0.313
Fluoranthene	CE087	M	0.017	mg/kg	2.42
Pyrene	CE087	M	0.016	mg/kg	2.29
Benzo(a)anthracene	CE087	U	0.012	mg/kg	0.989
Chrysene	CE087	M	0.028	mg/kg	1.06
Benzo(b)fluoranthene	CE087	M	0.02	mg/kg	1.23
Benzo(k)fluoranthene	CE087	M	0.025	mg/kg	0.538
Benzo(a)pyrene	CE087	U	0.019	mg/kg	1.08
Indeno(1,2,3-cd)pyrene	CE087	M	0.019	mg/kg	0.864
Dibenzo(a,h)anthracene	CE087	M	0.017	mg/kg	0.157
Benzo(g,h,i)perylene	CE087	M	0.019	mg/kg	0.761
Coronene	CE087	N	0.02	mg/kg	0.102
Total PAH(17)	CE087	N	0.3	mg/kg	12.9

SOIL VOCS

Lab Number					19287
Client Reference					DRY SOIL
Sample ID					SP2 SAMPLE 1
Sampling Date					17/10/2024
Test	**Method**	**Accred**	**LoD**	**Units**	
VOC					
Benzene	CE174	N	0.01	mg/kg	< 0.010
Toluene	CE174	N	0.01	mg/kg	< 0.010
Ethylbenzene	CE174	N	0.01	mg/kg	< 0.010
m,p-Xylene	CE174	N	0.01	mg/kg	< 0.010
o-xylene	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloroethane	CE174	N	0.01	mg/kg	< 0.010
Chloroform	CE174	N	0.01	mg/kg	< 0.010
Tetrachloromethane	CE174	N	0.01	mg/kg	< 0.010
1,1,1-Trichloroethane	CE174	N	0.01	mg/kg	< 0.010
Trichloroethylene	CE174	N	0.01	mg/kg	< 0.010
Tetrachloroethylene	CE174	N	0.01	mg/kg	< 0.010
Chlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Bromobenzene	CE174	N	0.01	mg/kg	< 0.010
Bromodichloromethane	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloro-1-propene	CE174	N	0.01	mg/kg	< 0.010
Trans - 1-2 -dichloroethylene	CE174	N	0.01	mg/kg	< 0.010
2,2-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
Bromochloromethane	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichloroethane	CE174	N	0.01	mg/kg	< 0.010
Dibromomethane	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
1,1,2-Trichloroethane	CE174	N	0.01	mg/kg	< 0.010
Dibromochloromethane	CE174	N	0.01	mg/kg	< 0.010
1,3-Dichloropropane	CE174	N	0.01	mg/kg	< 0.010
1,2-dibromoethane	CE174	N	0.01	mg/kg	< 0.010
Styrene	CE174	N	0.01	mg/kg	< 0.010
Propylbenzene	CE174	N	0.01	mg/kg	< 0.010
2-Chlorotoluene	CE174	N	0.01	mg/kg	< 0.010
1,2,4-Trimethylbenzene	CE174	N	0.01	mg/kg	< 0.010
4-Chlorotoluene	CE174	N	0.01	mg/kg	< 0.010

SOIL VOCS

t-butylbenzene	CE174	N	0.01	mg/kg	< 0.010
1,3,5-Trimethylbenzene	CE174	N	0.01	mg/kg	< 0.010
1,3-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Butylbenzene	CE174	N	0.01	mg/kg	< 0.010
Hexachlorobutadiene	CE174	N	0.01	mg/kg	< 0.010
1-2-3 - Trichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Naphthalene	CE174	N	0.01	mg/kg	< 0.010
1-2-4 - Trichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
1,4-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
1,2-Dichlorobenzene	CE174	N	0.01	mg/kg	< 0.010
Bromoform	CE174	N	0.01	mg/kg	< 0.010
1,2-Dibromo-3-Chloropropane	CE174	N	0.01	mg/kg	< 0.010
4-Isopropyltoluene_(p-Cymene)	CE174	N	0.01	mg/kg	< 0.010
1,1,1,2-Tetrachloroethane	CE174	N	0.01	mg/kg	< 0.010
Bromomethane	CE174	N	0.03	mg/kg	< 0.030
Chloroethane	CE174	N	0.01	mg/kg	< 0.010
Chloromethane	CE174	N	0.01	mg/kg	< 0.010
Cis-1,2-Dichloroethene	CE174	N	0.01	mg/kg	< 0.010
cis-1,3-Dichloro-1-Propene	CE174	N	0.01	mg/kg	< 0.010
1,1,2,2-Tetrachloroethane	CE174	N	0.01	mg/kg	< 0.010
Dichlorodifluoromethane_(CFC-12)	CE174	N	0.01	mg/kg	< 0.010
Dichloromethane	CE174	N	0.01	mg/kg	< 0.010
Isopropylbenzene_(Cumene)	CE174	N	0.01	mg/kg	< 0.010
MTBE	CE174	N	0.01	mg/kg	< 0.010
sec-Butylbenzene	CE174	N	0.01	mg/kg	< 0.010
trans-1,3-Dichloro-1-Propene	CE174	N	0.01	mg/kg	< 0.010
Trichlorofluoromethane_(CFC-11)	CE174	N	0.01	mg/kg	< 0.010
Vinyl chloride	CE174	N	0.01	mg/kg	< 0.010
1,1-Dichloroethene	CE174	N	0.01	mg/kg	< 0.010
1,2,3-Trichloropropane	CE174	N	0.01	mg/kg	< 0.010

DECLARATION OF COMPLIANCE (BS8601:2013)

Lab ref	19287	**Date received**	**24/10/2024**
Contract name	24-03293	**Analysis started**	**05/11/2024**
Sample ID		**Analysis completed**	**30/10/2024**
OS Grid reference	Not supplied	**Report issued**	**05/11/2024**
Date sampled	17/10/2024		

Test	**Units**	**Result**	**Compliant with Multipurpose? (Y/N)**	**Compliant with specific purpose? (Y/N)**	
				Acidic	**Calcareous**
Texture					
Clay content	% w/w	12	Y	Y	Y
Silt content	% w/w	28	Y	Y	Y
Sand content	% w/w	61	Y	Y	Y
Soil texture	**class**	**Sandy Loam**	Y	Y	Y
Stone content					
>2mm	% w/w	10	Y	Y	Y
>20mm	% w/w	0	Y	Y	Y
>75mm	% w/w	0	Y	Y	Y
Mass loss on ignition	% w/w	5.8	Y	Y	Y
pH[1]	pH units	8.0	Y	N	Y
Carbonate (calcareous only)	% w/w	6.2			Y
Electrical conductivity[2]	µS/cm	186			
Exchangeable sodium percentage	%	-	Y	Y	Y
Phytotoxic contaminants (by soil pH)					
Copper (Nitric acid extract)	mg/kg Cu	33	Y	Y	Y
Nickel (Nitric acid extract)	mg/kg Ni	13	Y	Y	Y
Zinc (Nitric acid extract)	mg/kg Zn	64	Y	Y	Y
OTHER CONTAMINANTS					
>2mm	% w/w	0	Y	Y	Y
...of which plastics	% w/w	0	Y	Y	Y
Sharps	% w/w	None	Y	Y	Y

[1] Results are accredited to MCERTS if matrix confirmed as soil
[2] Results in leachate are accredited to ISO17025

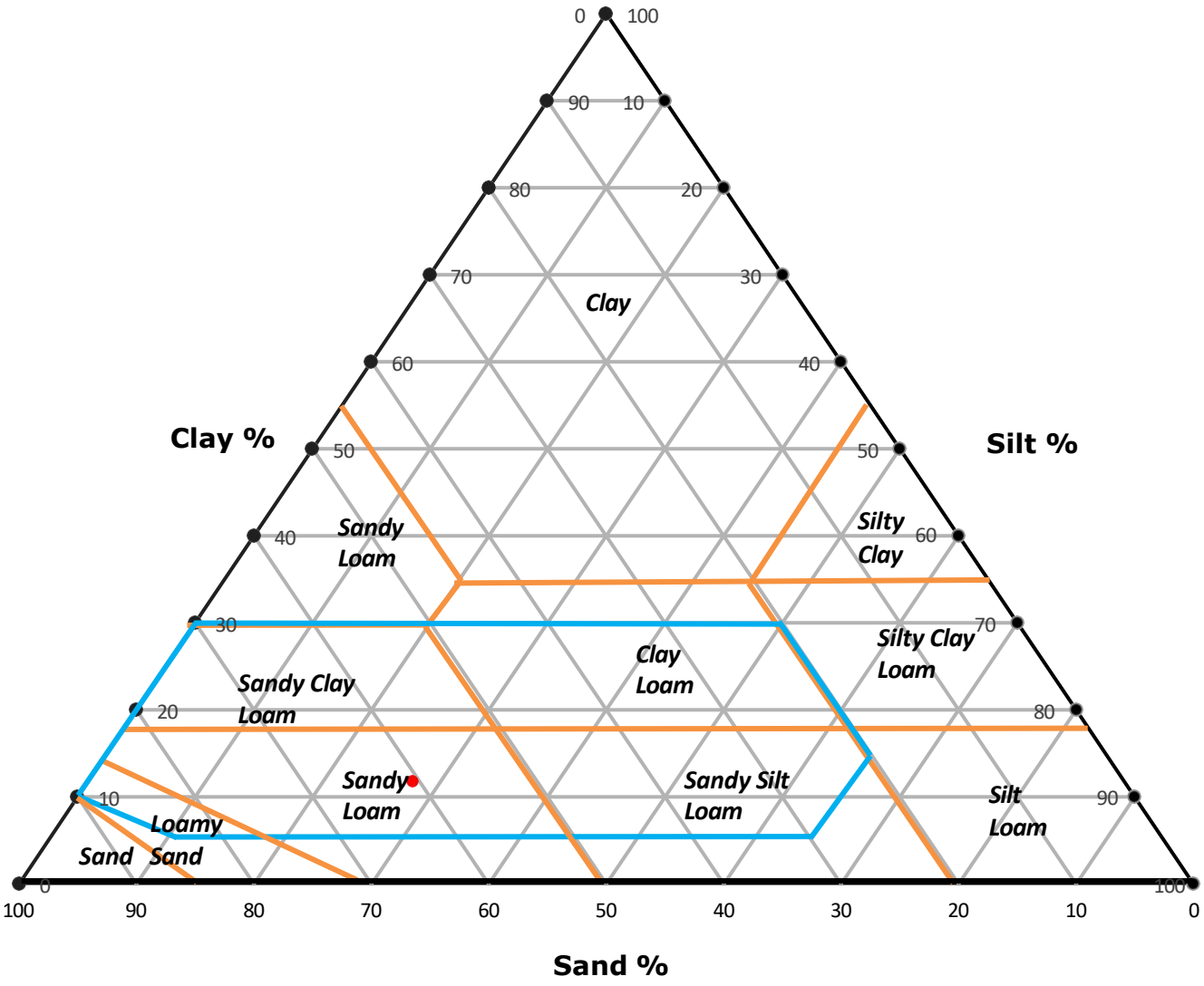
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(BS8601:2013)



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Tel 01207 528578 Email customerservices@chemtech-env.co.uk
Vat Reg No. 772 5703 18 Registered in England number 4284013

METHOD DETAILS

METHOD	TESTNAME	METHOD SUMMARY	ANALYSIS BASIS
CE267	VPH in Soil	HS-GCFID	As submitted sample
SUBCON	Asbestos Solid	HSG248	Air Dried Sample
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CE174	VOC in solids	HS-GCMS	As submitted sample
CE089	Extractable Phosphorus - BS3882	Sodium Hydrogen Carbonate extraction andd ICPOES	Air dried sample
CE062	Acid Soluble Sulphate in Solids	Primacs	Air dried sample
CE264	Metals by ICP in Soil	ICPOES	Air dried sample
CE250	GCXGC in Solids	DCM Extraction and GCxGC-FID	As submitted sample
CE087	PAH in Soil	DCM Extraction and GCMS	As submitted sample
CE078	Phenols in Solids	Continuous Flow Analyser	As submitted sample
CE077	Cyanides in Solids	Continuous Flow Analyser	As submitted sample
CE197	Primacs in Solids	Primacs	Air dried sample
CE006	Loss on ignition at 440 deg C	Gravimetric	Air dried sample

REPORT INFORMATION

Report No.:24-03293, issue number 3

Key	
U	ISO17025 Accredited Result
M	ISO17025 and MCERTS Accredited Result
N	Do not currently hold accreditation
^	MCERTS accreditation not applicable for sample matrix
*	ISO17025 accreditation not applicable for sample matrix
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I/S	Insufficient Sample
U/S	Unsuitable sample
N/T	Not tested
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Moisture Content Calculated on a Wet Weight basis

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

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

Sample Retention and Disposal

All soil samples will be retained for a period of 4 weeks from the point of receipt

All water samples will be retained for a period of 2 weeks from the point of Reporting

Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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 & 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 (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Statement of Conformity

Statement of Conformity
Where Chemtech reports a statement of conformity to a specification, the decision rules applied are derived from the Ilac document ILAC G8:09/2019.
Acceptance limits (AL), applied are derived from the tolerance limits (TL) by you the client or applicable standard (e.g. 2003.33.EC Council Decision, BS3882, BS8601)

Agreed and reported Decision Rule:
"PASS" if the result < TL, and the bias / precision values for the process meet the targets defined within the methodology and/or applied accreditation.

Reported Decisions:
Result < TL for determinands: PASS
Result > TL for determinands: FAIL

Definitions Used:
Acceptance limit (AL) Specified upper or lower bounds of permissible measured quantity values.
Tolerance limit (TL) Specified upper or lower bound of permissible values of a property.

Accreditation of WAC/BS3882/BS8601
Accreditation in Soil to MCERTS is only applicable for specific matrix types identified as soil (Sand/Loam/Clay) during the sample assessment
If the sample is classified as not soil, not accreditation is conveyed

APPENDIX 3

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Analytical Report Number : 25-037003

Project / Site name:	Blackwin	**Samples received on:**	11/07/2025
Your job number:	4134	**Samples instructed on/ Analysis started on:**	11/07/2025
Your order number:	4134-LL	**Analysis completed by:**	17/07/2025
Report Issue Number:	1	**Report issued on:**	17/07/2025
Samples Analysed:	6 soil samples		

Signed: [redacted]

Rafał Szczepańczyk
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 25-037003
Project / Site name: Blackwin
Your Order No: 4134-LL

Lab Sample Number				612825	612826	612827	612828	612829
Sample Reference				TS01	TS02	TS03	SS01	SS02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/07/2025	09/07/2025	09/07/2025	09/07/2025	09/07/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	20	17	6.3	8.2
Total mass of sample received	kg	0.1	NONE	0.9	0.9	0.9	0.9	0.9
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI	MBI	MBI	MBI
Analysis completed	N/A	N/A	N/A	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	7.6	7.9	7.6	8.4	9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	200	150	210	550	940
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	101	73.9	104	275	468
Organic Matter (automated)	%	0.1	MCERTS	4.8	4.7	4.8	1.4	1.6
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	0.8	0.9
Water Soluble Nitrate (2:1) as NO_3	mg/kg	2	NONE	12	17	21	28	36
Water Soluble Nitrate (2:1) as NO_3 (leachate equivalent)	mg/l	5	NONE	5.9	8.6	10	14	18
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.13	< 0.05	< 0.05	0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.58	< 0.05	0.16	0.09	0.08
Fluorene	mg/kg	0.05	MCERTS	0.39	< 0.05	0.08	0.08	0.09
Phenanthrene	mg/kg	0.05	MCERTS	2.7	0.36	0.88	0.96	0.87
Anthracene	mg/kg	0.05	MCERTS	0.54	0.1	0.22	0.26	0.27
Fluoranthene	mg/kg	0.05	MCERTS	2.3	0.81	1.5	1.4	2.1
Pyrene	mg/kg	0.05	MCERTS	2.5	0.8	1.4	1.3	2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	0.39	0.67	0.57	1.2
Chrysene	mg/kg	0.05	MCERTS	1.3	0.48	0.79	0.64	1.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.4	0.62	0.94	0.68	1.4
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.53	0.18	0.32	0.33	0.73
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.3	0.54	0.8	0.65	1.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.71	0.33	0.46	0.38	0.84
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.18	0.07	0.09	0.07	0.17
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.98	0.43	0.61	0.46	1
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	16.6	5.12	8.98	7.89	13.3

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Analytical Report Number: 25-037003
Project / Site name: Blackwin
Your Order No: 4134-LL

Lab Sample Number				612825	612826	612827	612828	612829
Sample Reference				TS01	TS02	TS03	SS01	SS02
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/07/2025	09/07/2025	09/07/2025	09/07/2025	09/07/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	9.8	13	11	8.7
Barium (aqua regia extractable)	mg/kg	1	MCERTS	79	71	89	130	230
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.64	0.51	0.73	0.79	0.63
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.7	0.9	1.4	2.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.2	0.6	0.7
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	18	21	22	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	29	36	50	86
Lead (aqua regia extractable)	mg/kg	1	MCERTS	59	57	67	40	88
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.3	< 0.3	0.4	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	12	15	19	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	21	17	23	23	22
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	66	95	74	110	190
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	11	13	19
TPHCWG - Aliphatic >EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	11
TPHCWG - Aliphatic >EC5 - EC35 $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	< 10	11	13	19
TPHCWG - Aliphatic >EC5 - EC44 $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	< 10	11	13	30
TPHCWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	10	< 10	< 10	11	16
TPHCWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	39	25	29	35	77
TPHCWG - Aromatic >EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	11	< 8.4	12	17	51
TPHCWG - Aromatic >EC5 - EC35 $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	50	25	29	46	93
TPHCWG - Aromatic >EC5 - EC44 $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	61	25	41	63	140
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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Analytical Report Number: 25-037003
Project / Site name: Blackwin
Your Order No: 4134-LL

Lab Sample Number				612830
Sample Reference				SS03
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				09/07/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	6.6
Total mass of sample received	kg	0.1	NONE	0.9

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI
Analysis completed	N/A	N/A	N/A	16/07/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	400
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	198
Organic Matter (automated)	%	0.1	MCERTS	1.4
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.8
Water Soluble Nitrate (2:1) as NO_3	mg/kg	2	NONE	26
Water Soluble Nitrate (2:1) as NO_3 (leachate equivalent)	mg/l	5	NONE	13

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.39
Anthracene	mg/kg	0.05	MCERTS	0.11
Fluoranthene	mg/kg	0.05	MCERTS	0.71
Pyrene	mg/kg	0.05	MCERTS	0.71
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.34
Chrysene	mg/kg	0.05	MCERTS	0.39
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.41
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.2
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.25
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.31

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	4.22

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Analytical Report Number: 25-037003
Project / Site name: Blackwin
Your Order No: 4134-LL

Lab Sample Number				612830
Sample Reference				SS03
Sample Number				None Supplied
Water Matrix				N/A
Depth (m)				None Supplied
Date Sampled				09/07/2025
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	86
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.69
Boron (water soluble)	mg/kg	0.2	MCERTS	1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.5
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	21
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	75
Petroleum Hydrocarbons				
TPHCWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.02	MCERTS	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	15
TPHCWG - Aromatic >EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	15
TPHCWG - Aromatic >EC5 - EC44 $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	15
VOCs				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 25-037003
Project / Site name: Blackwin

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
612825	TS01	None Supplied	None Supplied	Brown loam and clay with gravel and vegetation
612826	TS02	None Supplied	None Supplied	Brown loam with gravel and vegetation
612827	TS03	None Supplied	None Supplied	Brown loam with gravel and vegetation
612828	SS01	None Supplied	None Supplied	Brown loam with gravel and vegetation
612829	SS02	None Supplied	None Supplied	Brown loam with gravel and vegetation
612830	SS03	None Supplied	None Supplied	Brown loam with gravel and vegetation

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Analytical Report Number : 25-037003
Project / Site name: Blackwin

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 25-037003
Project / Site name: Blackwin

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

IGE consulting

Project: Blackwin

Job No: 4134

Lab Sample Number			612825	612826	612827	612828	612829	612830	Statistical Analysis					GAC - S4UL unless stated Statistical Results			
Sample Reference			TS01	TS02	TS03	SS01	SS02	SS03									
Sample Number			None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied									
Depth (m)			None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied									
Date Sampled			09/07/2025	09/07/2025	09/07/2025	09/07/2025	09/07/2025	09/07/2025	Count	Standard Deviation	Minimum	Maximum	Average	Maximum	**2.5% Residential with Home Grown Produce**	Pass/ Fail	Exceedances
Analytical Parameter (Soil Analysis)	**Units**	**LoD**															
Stone Content	%	0.1	0.10	0.10	0.10	0.10	0.10	0.10	6	0.00	0.1	0.1	0.1	0.1			
Moisture Content	%	0.01	16.00	20.00	17.00	6.30	8.20	6.60	6	6.01	6.30	20.00	12.35	20.00			
Total mass of sample received	kg	0.1	0.90	0.90	0.90	0.90	0.90	0.90	6	0.00	0.900	0.900	0.900	0.900			
Asbestos																	
Asbestos in Soil Screen	Type	N/A	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	6	-	-	-	-				
General Inorganics																	
pH - Automated	pH Units	N/A	7.60	7.90	7.60	8.40	9.00	8.40	6	0.55	7.60	9.00	8.15				
Total Cyanide	mg/kg	1	1.00	1.00	1.00	1.00	1.00	1.00	6	0.00	1.00	1.00	1.00	1.00	**60**	Pass	0
Free Cyanide	mg/kg	1	1.00	1.00	1.00	1.00	1.00	1.00	6	0.00	1.00	1.00	1.00	1.00	**60**	Pass	0
Water Soluble Sulfate as SO4 16hr extraction (2:1)	mg/kg	2.5	200.00	150.00	210.00	550.00	940.00	400.00	6	300.76	150.00	940.00	408.33				
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	101.00	73.90	104.00	275.00	468.00	198.00	6	149.87	73.90	468.00	203.32				
Organic Matter (automated)	%	0.1	4.80	4.70	4.80	1.40	1.60	1.40	6	1.81	1.40	4.80	**3.12**				
Total Organic Carbon (automated)	%	0.1	-	-	-	0.80	0.90	0.80	3	0.06	0.80	0.90	**0.83**				
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	12.00	17.00	21.00	28.00	36.00	26.00	6	8.52	12.00	36.00	23.33				
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	5.90	8.60	10.00	14.00	18.00	13.00	6	4.31	5.90	18.00	11.58				
Speciated PAHs																	
Naphthalene	mg/kg	0.05	0.13	0.05	0.05	0.05	0.05	0.05	6	0.03	0.05	0.13	0.06	0.13	**5.60**	Pass	0
Acenaphthylene	mg/kg	0.05	0.05	0.05	0.05	0.05	0.05	0.05	6	0.00	0.05	0.05	0.05	0.05	**420**	Pass	0
Acenaphthene	mg/kg	0.05	0.58	0.05	0.16	0.09	0.08	0.05	6	0.21	0.05	0.58	0.17	0.58	**510**	Pass	0
Fluorene	mg/kg	0.05	0.39	0.05	0.08	0.08	0.09	0.05	6	0.13	0.05	0.39	0.12	0.39	**400**	Pass	0
Phenanthrene	mg/kg	0.05	2.70	0.36	0.88	0.96	0.87	0.39	6	0.86	0.36	2.70	1.03	2.70	**220**	Pass	0
Anthracene	mg/kg	0.05	0.54	0.10	0.22	0.26	0.27	0.11	6	0.16	0.10	0.54	0.25	0.54	**5400**	Pass	0
Fluoranthene	mg/kg	0.05	2.30	0.81	1.50	1.40	2.10	0.71	6	0.65	0.71	2.30	1.47	2.30	**560**	Pass	0
Pyrene	mg/kg	0.05	2.50	0.80	1.40	1.30	2.00	0.71	6	0.69	0.71	2.50	1.45	2.50	**1200**	Pass	0
Benzo(a)anthracene	mg/kg	0.05	1.10	0.39	0.67	0.57	1.20	0.34	6	0.36	0.34	1.20	0.71	1.20	**11.00**	Pass	0
Chrysene	mg/kg	0.05	1.30	0.48	0.79	0.64	1.20	0.39	6	0.38	0.39	1.30	0.80	1.30	**22**	Pass	0
Benzo(b)fluoranthene	mg/kg	0.05	1.40	0.62	0.94	0.68	1.40	0.41	6	0.42	0.41	1.40	0.91	1.40	**3.30**	Pass	0
Benzo(k)fluoranthene	mg/kg	0.05	0.53	0.18	0.32	0.33	0.73	0.20	6	0.21	0.18	0.73	0.38	0.73	**93**	Pass	0
Benzo(a)pyrene	mg/kg	0.05	1.30	0.54	0.80	0.65	1.40	0.40	6	0.41	0.40	1.40	0.85	1.40	**2.70**	Pass	0
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	0.71	0.33	0.46	0.38	0.84	0.25	6	0.23	0.25	0.84	0.50	0.84	**36**	Pass	0
Dibenz(a,h)anthracene	mg/kg	0.05	0.18	0.07	0.09	0.07	0.17	0.05	6	0.06	0.05	0.18	0.11	0.18	**0.28**	Pass	0
Benzo(ghi)perylene	mg/kg	0.05	0.98	0.43	0.61	0.46	1.00	0.31	6	0.29	0.31	1.00	0.63	1.00	**340**	Pass	0
Total PAH																	
Speciated Total EPA-16 PAHs	mg/kg	0.8	16.60	5.12	8.98	7.89	13.30	4.22	6	4.79	4.22	16.60	9.35				
Heavy Metals / Metalloids																	
Arsenic (aqua regia extractable)	mg/kg	1	10.00	9.80	13.00	11.00	8.70	11.00	6	1.46	8.70	13.00	10.58	13.00	**37**	Pass	0
Barium (aqua regia extractable)	mg/kg	1	79.00	71.00	89.00	130.00	230.00	86.00	6	60.32	71.00	230.00	114.17	230.00	-	Pass	0
Boron (water soluble)	mg/kg	0.2	0.70	0.70	0.90	1.40	2.10	1.00	6	0.54	0.70	2.10	1.13	2.10	**290**	Pass	0
Cadmium (aqua regia extractable)	mg/kg	0.2	0.20	0.20	0.20	0.60	0.70	0.50	6	0.23	0.20	0.70	0.40	0.70	**11**	Pass	0
Chromium (hexavalent)	mg/kg	1.2	1.20	1.20	1.20	1.20	1.20	1.20	6	0.00	1.20	1.20	1.20	1.20	**6**	Pass	0
Chromium (aqua regia extractable)	mg/kg	1	23.00	18.00	21.00	22.00	19.00	17.00	6	2.37	17.00	23.00	20.00	23.00	**910**	Pass	0
Copper (aqua regia extractable)	mg/kg	1	32.00	29.00	36.00	50.00	86.00	29.00	6	22.17	29.00	86.00	43.67	86.00	**2400**	Pass	0
Lead (aqua regia extractable)	mg/kg	1	59.00	57.00	67.00	40.00	88.00	31.00	6	20.15	31.00	88.00	57.00	88.00	**200**	Pass	0
Mercury (aqua regia extractable)	mg/kg	0.3	0.30	0.30	0.40	0.30	0.30	0.30	6	0.04	0.30	0.40	0.32	0.40	**40**	Pass	0
Nickel (aqua regia extractable)	mg/kg	1	13.00	12.00	15.00	19.00	19.00	17.00	6	2.99	12.00	19.00	15.83	19.00	**130**	Pass	0
Selenium (aqua regia extractable)	mg/kg	1	1.00	1.00	1.00	1.00	1.00	1.00	6	0.00	1.00	1.00	1.00	1.00	**250**	Pass	0
Vanadium (aqua regia extractable)	mg/kg	1	21.00	17.00	23.00	23.00	22.00	21.00	6	2.23	17.00	23.00	21.17	23.00	**410**	Pass	0
Zinc (aqua regia extractable)	mg/kg	1	66.00	95.00	74.00	110.00	190.00	75.00	6	46.19	66.00	190.00	101.67	190.00	**3700**	Pass	0
Monoaromatics & Oxygenates																	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	5.00	5.00	5.00	5.00	5.00	5.00	6	0.00	5	5	5.00		-		
Benzene	µg/kg	5	5.00	5.00	5.00	5.00	5.00	5.00	6	0.00	5	5	5.00	5	**170**	Pass	0
Toluene	µg/kg	5	5.00	5.00	5.00	5.00	5.00	5.00	6	0.00	5	5	5.00	5	**290000**	Pass	0
Ethylbenzene	µg/kg	5	5.00	5.00	5.00	5.00	5.00	5.00	6	0.00	5	5	5.00	5	**110000**	Pass	0
p & m-xylene	µg/kg	8	8.00	8.00	8.00	8.00	8.00	8.00	6	0.00	8	8	8.00	8	**130000**	Pass	0
o-xylene	µg/kg	5	5.00	5.00	5.00	5.00	5.00	5.00	6	0.00	5	5	5.00	5	**140000**	Pass	0
Petroleum Hydrocarbons																	
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6	0.000	0.010	0.010	0.010	0.010	**78**	Pass	0
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6	0.000	0.010	0.010	0.010	0.010	**230**	Pass	0
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6	0.000	0.010	0.010	0.010	0.010	**65**	Pass	0
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	1.00	1.00	1.00	1.00	1.00	1.00	6	0.00	1.00	1.00	1.00	1.00	**330**	Pass	0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	2.00	2.00	2.00	2.00	2.00	2.00	6	0.00	2.00	2.00	2.00	2.00	**2400**	Pass	0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	8.00	8.00	8.00	8.00	8.00	8.00	6	0.00	8.00	8.00	8.00	8.00	-		
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	8.00	8.00	11.00	13.00	19.00	8.00	6	4.36	8.00	19.00	11.17	19.00	**92000**	Pass	0
TPH-CWG - Aliphatic >EC35 - EC44	mg/kg	8.4	8.40	8.40	8.40	8.40	11.00	8.40	6	1.06	8.40	11.00	8.83	11.00	**92000**	Pass	0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	10.00	10.00	11.00	13.00	19.00	10.00	6	3.54	10.00	19.00	12.17		-		
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	10.00	10.00	11.00	13.00	30.00	10.00	6	7.92	10.00	30.00	14.00		-		
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6	0.000	0.010	0.010	0.010	0.010	**140**	Pass	0
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6	0.000	0.010	0.010	0.010	0.010	**290**	Pass	0
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.02	0.02	0.02	0.02	0.02	0.02	0.02	6	0.000	0.020	0.020	0.020	0.020	**83**	Pass	0
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	1.00	1.00	1.00	1.00	1.00	1.00	6	0.00	1.00	1.00	1.00	1.00	**180**	Pass	0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	2.00	2.00	2.00	2.00	2.00	2.00	6	0.00	2.00	2.00	2.00	2.00	**330**	Pass	0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	10.00	10.00	10.00	11.00	16.00	10.00	6	2.40	10.00	16.00	11.17	16.00	**540**	Pass	0
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	39.00	25.00	29.00	35.00	77.00	15.00	6	21.44	15.00	77.00	36.67	77.00	**1500**	Pass	0
TPH-CWG - Aromatic >EC35 - EC44	mg/kg	8.4	11.00	8.40	12.00	17.00	51.00	8.40	6	16.49	8.40	51.00	17.97	51.00	**1500**	Pass	0
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	50.00	25.00	29.00	46.00	93.00	15.00	6	27.79	15.00	93.00	43.00		-		
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	61.00	25.00	41.00	63.00	140.00	15.00	6	44.68	15.00	140.00	57.50		-		

GAC used: LQM/CIEH Suitable 4 Use Levels for Human Health Risk Assessment (3rd edition, 2015)

Category 4 Screening Levels (March 2014) used for Arsenic

In-house methodology used for Cyanide - no GAC currently available

Exceeded GAC & C4SL

Exceeded GAC but not C4SL

Recorded below laboratory detection limit

This spreadsheet has been developed by IGE Consulting Ltd

APPENDIX 4

1st floor, 15 Oxford Court, Manchester, M2 3WQ
email: contact@igeconsulting.co.uk
web: www.igeconsulting.co.uk
tel: 0161 914 9170

Verification Log

Project Name:	Blackwin
Project Number:	4134
Location:	Blackwin Street, Manchester
Client:	John Southworth Builders Ltd

Remediation Requirements:

150mm-300mm 'clean' topsoil, underlain by up to 450mm 'clean' subsoil, to a total of 600mm depth, underlain by a hi viz permeable geotextile in private gardens

Or 150mm-300mm 'clean' topsoil, underlain by up to 300mm 'clean' subsoil, underlain by a 150mm gravel break layer to a total of 600mm depth, in private gardens

150mm-300mm 'clean' topsoil, underlain by up to 300mm 'clean' subsoil, to a total of 450mm depth, underlain by a hi viz permeable geotextile in areas of soft landscaping

Or 150mm-300mm 'clean' topsoil, underlain by up to 150mm 'clean' subsoil, underlain by a 150mm gravel break layer to a total of 450mm depth in areas of soft landscaping

Validation Requirements:

Plot thickness validation photographs at a rate of 1 pit per three plot and associated chemical testing.

Plot Number:	Plot 1
Inspection date:	5th August 2025
Engineer:	LL

Photographs:





Photographs show 150mm of topsoil; underlain by 450mm subsoil; underlain by hi-vis membrane and plot context.

This plot has PASSED / ~~FAILED~~* verification

*Proposed further remedial works (if FAILED):

An additional inspection ~~IS~~ / IS NOT required for this plot

1st floor, 15 Oxford Court, Manchester, M2 3WQ
email: contact@igeconsulting.co.uk
web: www.igeconsulting.co.uk
tel: 0161 914 9170

Verification Log

Project Name:	Blackwin
Project Number:	4134
Location:	Blackwin Street, Manchester
Client:	John Southworth Builders Ltd

Remediation Requirements:

150mm-300mm 'clean' topsoil, underlain by up to 450mm 'clean' subsoil, to a total of 600mm depth, underlain by a hi viz permeable geotextile in private gardens

Or 150mm-300mm 'clean' topsoil, underlain by up to 300mm 'clean' subsoil, underlain by a 150mm gravel break layer to a total of 600mm depth, in private gardens

150mm-300mm 'clean' topsoil, underlain by up to 300mm 'clean' subsoil, to a total of 450mm depth, underlain by a hi viz permeable geotextile in areas of soft landscaping

Or 150mm-300mm 'clean' topsoil, underlain by up to 150mm 'clean' subsoil, underlain by a 150mm gravel break layer to a total of 450mm depth in areas of soft landscaping

Validation Requirements:

Plot thickness validation photographs at a rate of 1 pit per three plot and associated chemical testing.

Plot Number:	Plots 2-4
Inspection date:	28th July 2025
Engineer:	LL

Photographs:





Photographs show 300mm of topsoil; underlain by 300mm subsoil; underlain by hi-vis membrane and plot context.

This plot has PASSED / ~~FAILED~~* verification

*Proposed further remedial works (if FAILED):

An additional inspection ~~IS~~ / IS NOT required for this plot

1st floor, 15 Oxford Court, Manchester, M2 3WQ
email: contact@igeconsulting.co.uk
web: www.igeconsulting.co.uk
tel: 0161 914 9170

Verification Log

Project Name:	Blackwin
Project Number:	4134
Location:	Blackwin Street, Manchester
Client:	John Southworth Builders Ltd

Remediation Requirements:

150mm-300mm 'clean' topsoil, underlain by up to 450mm 'clean' subsoil, to a total of 600mm depth, underlain by a hi viz permeable geotextile in private gardens

Or 150mm-300mm 'clean' topsoil, underlain by up to 300mm 'clean' subsoil, underlain by a 150mm gravel break layer to a total of 600mm depth, in private gardens

150mm-300mm 'clean' topsoil, underlain by up to 300mm 'clean' subsoil, to a total of 450mm depth, underlain by a hi viz permeable geotextile in areas of soft landscaping

Or 150mm-300mm 'clean' topsoil, underlain by up to 150mm 'clean' subsoil, underlain by a 150mm gravel break layer to a total of 450mm depth in areas of soft landscaping

Validation Requirements:

Plot thickness validation photographs at a rate of 1 pit per three plot and associated chemical testing.

Plot Number:	Plots 5-7
Inspection date:	29th July 2025
Engineer:	LL

Photographs:





Photographs show 150mm of topsoil; underlain by 450mm subsoil; underlain by hi-vis membrane and plot context.

This plot has PASSED / ~~FAILED~~* verification

*Proposed further remedial works (if FAILED):

An additional inspection ~~IS~~ / IS NOT required for this plot

APPENDIX 5

DHI Excavations Ltd

Collection / Delivery Note

Bulk Excavation • Demolition • Aggregates • Soils • Grab Hire • Tipper Hire

11 - 13 Church Street, Farnworth, Bolton. BL4 8AG
Tel: 0161 794 4550 • fax: 0161 790 8088 • mobile; 07921 833673
Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 426058

Date: 4/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin ST, Gorton

Vehicle Reg: FN15 Driver Name: BAZ

Vehicle Type:	8W TIPPER		6W GRAB		8W GRAB		OTHER	

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

1 x SUBSOIL DELIVERED

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork: Hours Worked: Travel Time: Total Time:

Consignee S[redacted] Time:

Print Name: [redacted]

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

DHI Excavations Ltd

Collection / Delivery Note

Bulk Excavation • Demolition • Aggregates • Soils • Grab Hire • Tipper Hire

11 - 13 Church Street, Farnworth, Bolton. BL4 8AG
Tel: 0161 794 4550 • fax: 0161 790 8088 • mobile; 07921 833673
Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 426059

Date: 4/8/25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blacklin St, Gorton

Vehicle Reg: FD15 FZM Driver Name: ISA2

Vehicle Type:

8W TIPPER		6W GRAB		8W GRAB		OTHER	

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

1 x Sub Soil Delivery.

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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

DHI Excavations Ltd

Collection / Delivery Note

Bulk Excavation • Demolition • Aggregates • Soils • Grab Hire • Tipper Hire

11 - 13 Church Street, Farnworth, Bolton. BL4 8AG
Tel: 0161 794 4550 • fax: 0161 790 8088 • mobile; 07921 833673
Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 426060

Date: 4/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blacklow St, Gorton

Vehicle Reg: FN15 FMZ Driver Name: BAZ

Vehicle Type: 8W TIPPER | 6W GRAB | 8W GRAB | OTHER

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

1 x Sub Soil Delivery.

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork: Hours Worked: Travel Time: Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson.

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

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

Collection / Delivery Note

No: 430352

Date: 4/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: JOHN SOUTHWORTH

Location: BLACKWIN ST GORTON M12 5LG

Vehicle Reg: SN68 SLU Driver Name: BRIAN

Vehicle Type:	8W TIPPER	6W GRAB	8W GRAB	OTHER
		/		

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

1 x 8W SUBSOIL DELIVERED

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature [redacted] Time:

Print Name: JACK ROBERTSON.

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

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Collection / Delivery Note

No: 430353

Date: 7/7/23

WCL No: CB/DU181466 SIC CODE:

Customer: JOHN SOUTHWORTH

Location: BRACKWIN ST CORTON

Vehicle Reg: SN65HUS Driver Name: BRIAN

Vehicle Type:

8W TIPPER		6W GRAB		8W GRAB		OTHER	
		✓					

Material: Weight: Weight: TONNE / KG

1 x 8 W SUBSOIL DELIVERED

Gross:

Tare:

Net:

EWC Code:

DELAYS OR WAITING TIME

_____ ARR _____ DEP _____ HR

REASON FOR DELAY:

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: JACK ROBERTSON

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

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 446827

Date: 7/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St Gorton M12 5LB

Vehicle Reg: PN68 BWD Driver Name: Dale

Vehicle Type:

8W TIPPER		6W GRAB		8W GRAB		OTHER	
✓							

Material: Weight: Weight: TONNE / KG

1 x 8 w load

DELAYS OR WAITING TIME

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code: Net: Subsoil

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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No: 430354

Date: 7/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: JOHN SOUTHWORTH

Location: BIACHWIN ST GORTON

Vehicle Reg: SN65HUS Driver Name: BRIAN

Vehicle Type:	8W TIPPER		6W GRAB		8W GRAB		OTHER	
		✓						

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

1 X 8W SUBSOIL DELIVERED

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: JACK ROBERTSON

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

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Collection / Delivery Note

No: 446828

Date: 7/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St Gorton

Vehicle Reg: PN68 BWD Driver Name: Dale

Vehicle Type:

8W TIPPER	6W GRAB	8W GRAB	OTHER
✓			

Material: Weight: Weight: TONNE / KG

1 x 8w load

DELAYS OR WAITING TIME

Gross: _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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

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No: 446829

Date: 7/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin Sit Gorton

Vehicle Reg: PN68 BWD Driver Name: Dale

Vehicle Type:	8W TIPPER	6W GRAB	8W GRAB	OTHER

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

1 x 8 W load Subsoil

Gross: ARR DEP HR

Tare: REASON FOR DELAY:

EWC Code:

Net: Delivered

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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

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Collection / Delivery Note

No: 446830

Date: 7/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St gorton

Vehicle Reg: PN68 BWD Driver Name:

Vehicle Type:

8W TIPPER	6W GRAB	8W GRAB	OTHER
✓			

Material: Weight: Weight: TONNE / KG

DELAYS OR WAITING TIME

Gross: 1 X 8 whood Subsoil ARR DEP HR

Tare:

EWC Code:

Net:

REASON FOR DELAY:

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature [redacted] Time:

Print Name: Jack Robertson

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

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Collection / **Delivery Note**

No: 430356

Date: 7/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: JOHN SOUTHWORTH

Location: BRACHWIN ST GORTON

Vehicle Reg: SN64HUS Driver Name: BRIAN

Vehicle Type:

8W TIPPER		6W GRAB		8W GRAB		OTHER	
	✓						

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

1 x 8W SUBSOIL DELIVERED

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature [redacted] Time:

Print Name: Robert Black

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

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Collection / Delivery Note

No: 430355

Date: 7/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: JOHN SOUTHWORTH

Location: BIACHWIN ST CLEETON

Vehicle Reg: SN65NWS Driver Name: REIAN

Vehicle Type:	8W TIPPER		6W GRAB		8W GRAB		OTHER	
		✓						

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

1 x 8W SUBSOIL DELIVERED

Gross: _____ _____ ARR _____ DEP _____ HR

EWC Code: Tare: _____ REASON FOR DELAY:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 446708

Date: 9/7/23

WCL No: CB/DU181466 SIC CODE:

Customer: JOHN SOUTHWORTH

Location: BLACKMIN ST CORTON

Vehicle Reg: SN65HWS Driver Name: BRIAN

Vehicle Type:

8W TIPPER	✓	6W GRAB		8W GRAB		OTHER	

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

Subsoil 1x8W DELIVERED

Gross: _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signatu[redacted] Time:

Print Name: Jack Robertson

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

DHI Excavations Ltd

Collection / Delivery Note

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 426061

Date:

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St Gorton

Vehicle Reg: FN15 FZM Driver Name: Lee

Vehicle Type:

8W TIPPER	6W GRAB	8W GRAB	OTHER
✓			

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

Gross: 1 x Subsoil ARR Delivered. DEP HR

Tare: REASON FOR DELAY:

EWC Code:

Net:

Daywork: Hours Worked: Travel Time: Total Time:

Consignee Signature [redacted] Time:

Print Name: Jack Robertson

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

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Collection / Delivery Note

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 446709

Date: 9/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: JOHN SOUTHWORTH

Location: BLACKWIN ST GORTON

Vehicle Reg: SN65HUJ Driver Name: BRIAN

Vehicle Type:	8W TIPPER		6W GRAB	✓	8W GRAB		OTHER	

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

Subsoil 1X8W DELIVERED

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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

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Collection / Delivery Note

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 426062

Date: 9/7/25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St Gorton

Vehicle Reg: FN15 FZM Driver Name: Lee

Vehicle Type:	8W TIPPER	6W GRAB	8W GRAB	OTHER
	—			

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

Gross: 1 x Subsoil ARR Delivered DEP HR

EWC Code: Tare: REASON FOR DELAY:

Net:

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 437397

Date: 8-7-25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St, Gorton

Vehicle Reg: PN20 EZJ Driver Name: Leaky

Vehicle Type:	8W TIPPER	6W GRAB	8W GRAB	OTHER
	✓			

Material: Weight: Weight: TONNE / KG DELAYS OR WAITING TIME

Topsoil 1x Load del

Gross: _____ _____ ARR _____ DEP _____ HR

Tare: _____ REASON FOR DELAY:

EWC Code:

Net: _____

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signatu [redacted] Time:

Print Name: Jack Robertson

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

DHI Excavations Ltd

Collection / Delivery Note

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 437396

Date: 8-7-25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St, Gorton

Vehicle Reg: PN20EZJ Driver Name: Leahy

Vehicle Type:	8W TIPPER	6W GRAB	8W GRAB	OTHER
	✓			

Material: Topsoil

Weight: Gross: 1x Load del

Weight: Tare:

Net:

TONNE / KG

EWC Code:

DELAYS OR WAITING TIME

ARR DEP HR

REASON FOR DELAY:

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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

DHI Excavations Ltd

Collection / Delivery Note

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 437400

Date: 10-7-25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St, Gorton

Vehicle Reg: PN20EZB Driver Name: Leaky

Vehicle Type:	8W TIPPER	6W GRAB	8W GRAB	OTHER
	✓			

Material: Topsoil

Weight: Weight: Gross: Tare: Net:

TONNE / KG 1x Load del

DELAYS OR WAITING TIME

ARR DEP HR

REASON FOR DELAY:

EWC Code:

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: Jack Robertson

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

(2)

DHI Excavations Ltd

Collection / Delivery Note

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Email: enquiries@dhiexcavations.co.uk Web: www.dhiexcavations.co.uk

No: 436423

Date: 10-7-25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St, Gorton

Vehicle Reg: PX20 EZJ Driver Name: Leahy

Vehicle Type: 8W TIPPER ✓ | 6W GRAB | 8W GRAB | OTHER

Material: Topsoil

Weight: Gross: 1x Laid del

Weight: Tare:

Net:

TONNE / KG

DELAYS OR WAITING TIME

_____ ARR _____ DEP _____ HR

REASON FOR DELAY:

EWC Code:

Daywork: Hours Worked: Travel Time: Total Time:

Consignee Signature: [redacted] Time:

Print Name: [illegible]

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

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No: 436425

Date: 11-7-25

WCL No: CB/DU181466 SIC CODE:

Customer: John Southworth

Location: Blackwin St, Gorton

Vehicle Reg: PN20EZJ Driver Name: Leaky

Vehicle Type:	8W TIPPER	6W GRAB	8W GRAB	OTHER
	✓			

Material: Topsoil

Weight: Gross: 1x Load del

Weight: Tare:

Net:

TONNE / KG

DELAYS OR WAITING TIME

ARR DEP HR

REASON FOR DELAY:

EWC Code:

Daywork:	Hours Worked:	Travel Time:	Total Time:

Consignee Signature: [redacted] Time:

Print Name: [illegible]

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