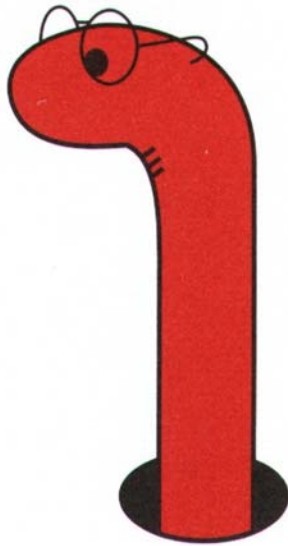


Electronic Report



WORMS EYE

Worms Eye Limited
PO Box 1157
COLNE
BB9 4HS

01282 414649
info@wormseye.co.uk

Our Ref: Malvern Close/M25 1PH/2023
Date: 6 September 2023

Jim Allsop
Moss View
4 Killy Lane
Bury
BL9 8GA

Copy to : Gabrielle Thorp
thorpdesignservices@gmail.com

enquiries@convertyourgarage.com

11 MALVERN CLOSE, PRESTWICH, M25 1PH

REMEDIATION STRATEGY

INTRODUCTION

A residential development is proposed. Following an intrusive report (6/9/23) the objective is to prepare a remediation strategy.

SITE LOCATION

The site is rectangular, about 8 x 20m, located to the northwest of Malvern Close in Prestwich and a OS Grid Reference 382139, 404223. In March 2023, the site comprises a vacant plot, a previous house having been demolished, generally untidy with concrete (presumably a floor slab) visible at the centre of the site, demolition rubble in places and possible made ground in places. By the time of the investigation, construction of the house had started.

PROPOSED DEVELOPMENT

It is proposed to build a semi-detached house, to the northeast of the existing house, over a larger footprint than previous, extending further to the northwest. There will be a driveway at the southeast, and gardens to the northwest and southeast.

LEGAL/COPYRIGHT

Material included in this report from Ordnance Survey (Licence No. AL100031635), Landmark, Environment Agency, the Coal Authority and others (if any) may be copyright and the usual restrictions apply. This report can only be relied upon if the invoice has been paid promptly and in full. This report may be signed by an individual, but only on behalf of Worms Eye Limited.

INTRUSIVE REPORT

Worms Eye prepared an intrusive report dated 6/9/23, the salient points were:

Ground Conditions

Five trial holes were excavated to shallow depth to collect samples for testing.

The following approximates to a section looking northeast.

Findings	THE (m)	THA (m)	THB (m)	THC (m)	THD (m)
Made ground	-	-	-	0.0 – 0.3	0.0 – 0.3
Topsoil	0.0 – 0.4	0.0 – 0.35	0.0 – 0.3	0.3 – 0.6+	0.0 – 0.7
Peat	0.4 – 0.6+	0.35 – 0.6+	0.3 – 0.6+	-	0.7 – 1.0+

Contamination

Test results show raised levels of lead and PAHs in THC and THD at the front (southeast). with levels at the rear (northwest) being below the screening thresholds, suggesting a possible risk at the front of the house but no risk at the rear garden.

The risks from these PAHs, and lead, arise from householders having direct contact with surface soils. Therefore, in garden or landscaped areas remedial works are required to remove the risk to householders. However, the contaminated soils can remain below the house and drive with no risk.

Water Soluble Sulphate levels are low and sulphate resistant concrete is not required.

Volatile hydrocarbons are below the thresholds and there is no risk from hydrocarbon vapours.

The tests results suggest, subject to approval, the site is suitable for normal PE water pipes.

Excavated Soils

Test results suggest excavated soil would not be classed as hazardous waste. However, levels of TOC and LOI may pose difficulties for disposal off-site to landfill.

Controlled Waters

Risks to controlled waters are considered very low and no further action is required.

Gas Testing

Peat was seen in the trial holes and a very low gas risk is considered possible. It is considered that this can be adequately dealt with by installing precautionary gas protection measures.

End of Intrusive Report Re-Cap

REMEDIATION STRATEGY

Construction Workers

Site workers should be made aware of the hazards of working with contaminated soils, and appropriate procedures and PPE adopted to ensure the health and safety of the site operative. All site personnel should be briefed on the discovery strategy in the watching brief and what actions they must take in the event that further evidence of contamination is identified or suspected.

Normal precautions for an urban renewal type project are required. These would include the use of gloves and the provision of washing facilities to avoid ingestion of contaminants.

Watching Brief

A watching brief for unexpected contaminants should be maintained. If unexpected contaminants (e.g. asbestos, oily material, unusual smells) are seen, especially during excavations, work should cease and the consultant be notified and the site inspected.

We suggest taking regular photographs (daily or more frequent) of excavations to include in the validation report.

Garden/Landscaped Areas

Contamination by lead and PAHs was found to be present in made ground at the front (southeast) and one method would be to remove the source by excavating the contaminated material beneath gardens, paths, patios and other non-permanent hard-surfaced areas and disposing off site.

- Excavate contaminated soils to a minimum 600mm below finished ground level, below gardens and non-permanent hard-surfaced areas on the southeast of the site.
- Test northeast side of excavation for lead and PAHs.
- If levels remain high, widen excavation and re-test.
- Dispose excavated soils off-site.
- Backfill with clean, imported soils, comprising (bottom up):
 - Geotextile (or similar) warning barrier
 - 450mm sub-soil (gardens) or 550mm sub-soil (non-garden areas)
 - 150mm topsoil (gardens)

An alternative is to create a hard-surfaced drive at the front (southeast) and path along the northeast of the house. This would prevent householders having direct contact with contaminated soils.

Excavated Soils

Test results suggest excavated soil would not be classed as hazardous waste. Levels of TOC and LOI may pose difficulties for disposal off-site to landfill and the results should be issued to the receiving site for confirmation.

Landfill/Ground Gases

Peat was found in the THs and the following are considered suitable for the possible level of risk:

- Ventilation of confined spaces within building.
- A well-constructed reinforced concrete ground bearing slab or suspended floor.
- Minimum penetration of ground slab by services.
- Precautions should continue across the cavity.
- Visqueen gas barrier (blue with foil layer - resists methane, carbon dioxide and radon).
- Each membrane should be used with the appropriate matching cavity tray (or cavity membrane), DPC and service duct 'top hat'.
- Joints to be lapped and sealed.

Validation of gas membrane will require:

- Summary of gas risk assessment.
- Details of who carried out installation.
- Details of who carried out verification and inspection regime.
- Description of protection measures installed, including photographs.
- Details of non-conformances and how they were rectified (if any).
- Completed gas measures inspection proforma confirming that the gas protection measures were installed as agreed, the membrane was free from tears and punctures, lapped and sealed as agreed at joints around services. This to be included in the Verification Report.

Testing required on imported material

The following tests are required on imported material, tested by the developer or by the supplier:

- Virgin quarried material – 1 or 2 tests depending on the type of stone. Testing to include arsenic, cadmium, chromium (total), chromium VI, copper, mercury, nickel, lead, selenium, zinc.
- Crushed hardcore, stone, brick – minimum of 1 test per 1000m³. Testing to include arsenic, cadmium, chromium (total), chromium VI, copper, mercury, nickel, lead, selenium, zinc, PAH (16 USEPA speciation), asbestos, TPHs.
- Greenfield/manufactured soils – minimum of 3 tests or 1 test per 250m³ (whichever is greater). Testing to include arsenic, cadmium, chromium (total) chromium VI, copper, mercury, nickel, lead, selenium, zinc, PAH (16 USEPA speciation), asbestos, TPHs.
- Brownfield/screened soils – minimum of 6 tests or 1 per 100m³ (whichever is greater). Testing to include arsenic, cadmium, chromium (total) chromium VI, copper, mercury, nickel, lead, selenium, zinc, PAH (16 USEPA speciation), asbestos, TPHs and any additional analysis dependant on the history of the donor site.

Soil Screen Values

Tests carried out on the imported material, either by the supplier or the consultant, to be screened against residential values, based on 1% SOM. If these are exceeded, site specific value may be derived, subject to them being appropriate.

Validation

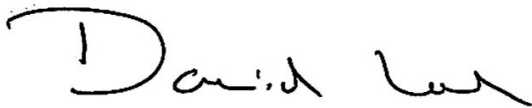
A validation report will be required on completion, this will require but not necessarily be limited to:

- Tickets from waste removal contractor and receiving landfill.
- Photographs of excavation to confirm depth.
- Contamination test results for tests on imported soils.
- Photographs to confirm thickness of imported soil types.
- Document (receipt, delivery notes) to show soil types and sources.
- Independent inspection of gas membrane and report.

This report is usually a collaboration between the contractor, who will collect the above documentation and Worms Eye, who can assist in preparing the Validation Report

Yours faithfully

on behalf of Worms Eye Ltd

A handwritten signature in black ink, appearing to read 'David Lord', with a stylized flourish at the end.

David Lord
BSc (Hons)
FGS, MIEEnvSc, AIEMA

11 MALVERN CLOSE, PRESTWICH, M25 1PH

List of Appendices – Remediation Strategy

List of Acronyms

Proposed site plan – showing area of proposed remedial works

Trial Hole Logs

Contamination Test Results - Soil

Hazwaste Report

UU Risk Assessment

CONTAMINATION TEST UNITS

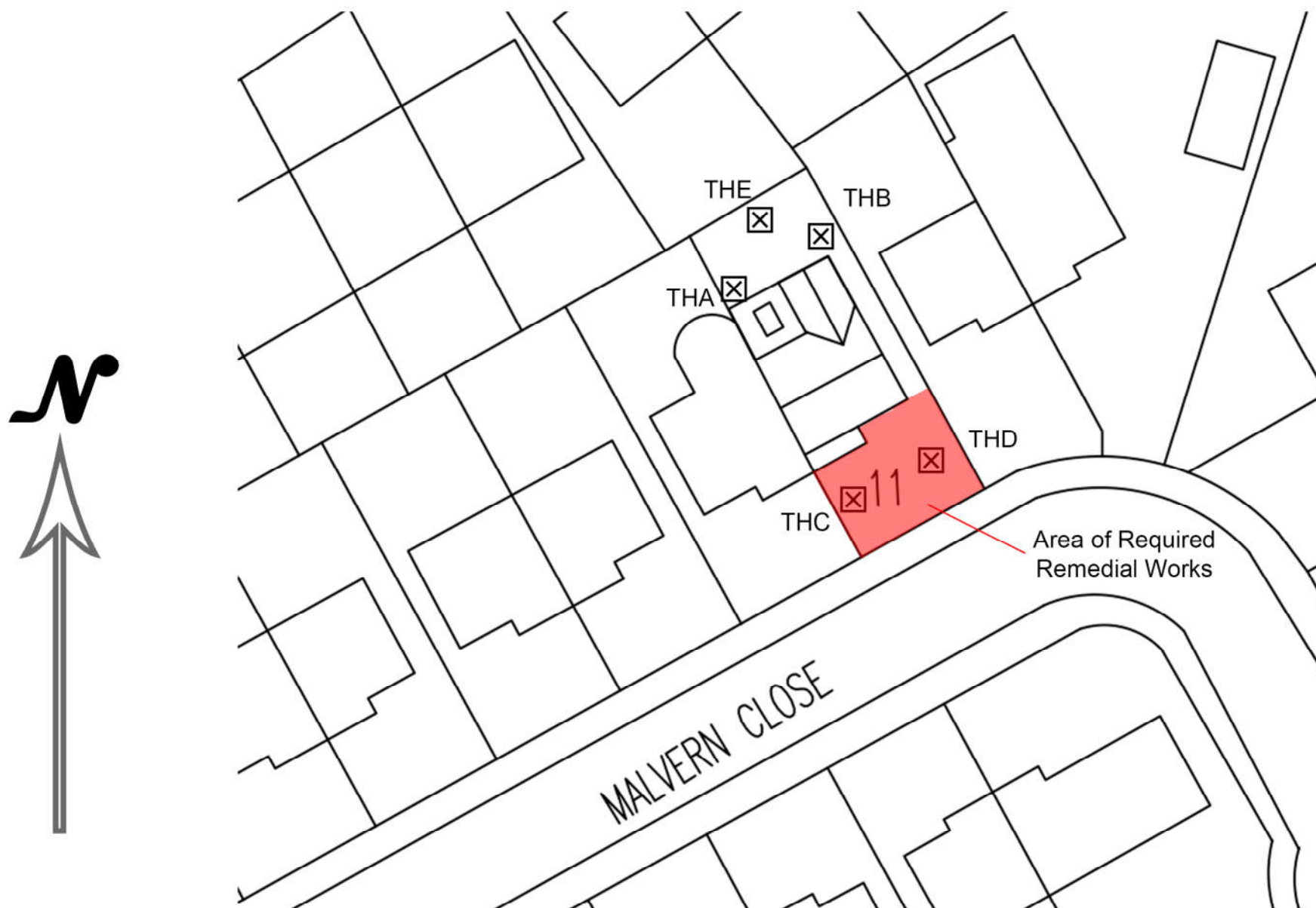
Conversion factor	Name	Symbol	Numerical Value	Alternative description	Commonly used for:
	per cent	%	1 in 100 (10 ²)		total sulphur, hazardous waste
% x10	parts per thousand	‰	1 in 1000 (10 ³)	g/l (grams per litre)	water soluble sulphate test
‰ x 1,000	parts per million	ppm	1 in 1,000,000 (10 ⁶)	mg/kg (milligrams per kilogram)	most soil tests
				mg/l (milligrams per litre)	water tests
ppm x 1,000	parts per billion	ppb	1 in 1,000,000,000 (10 ⁹)	µg/kg (micrograms per kilogram)	PAH soil tests
				µg/l (micrograms per litre)	water/leachate tests
ppb x 1,000	parts per trillion	ppt	1 in 1,000,000,000,000 (10 ¹²)	ng/kg (nanograms per kilogram)	PAH soil tests
				ng/l (nanograms per litre)	water/leachate tests

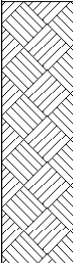
ABBREVIATIONS

<u>Chemical</u>	BAP	Benzo(a)pyrene
	BTEX	Benzene, toluene, ethylbenzene, xylene
	DAHA	Dibenzo(ah)anthracene
	MTBE	Methyl tertiaryt-butyl ether (additive to petrol)
	EPH	Extractable petroleum hydrocarbons (formerly diesel range organics – DRO)
	NFD	No fibres detected (asbestos test)
	PAH	Polycyclic aromatic hydrocarbons
	PCB	Polychlorinated biphenyls
	PCE	Perchloroethylene or tetrachloroethylene
	PID	Photo ionisation detector (screen for VOC)
	PRO/GRO	Petrol range organics/gasoline range organics
	SVOC	Semi-volatile organic compounds
	TCE	Trichloroethylene
	TPH	Total petroleum hydrocarbons
	VOC	Volatile organic compounds
<u>Other</u>	AGS	Association of Geotechnical Specialists
	BGS	British Geological Survey
	BRE	Building Research Establishment
	CBR	California Bearing Ratio
	CIEH	Chartered Institute of Environmental Health
	CIRIA	Construction Industry Research and Information Association
	CLEA	Contaminated Land Exposure Assessment (Environment Agency/DEFRA)
	CLR 8	Contaminated Land Research Report 8 (Environment Agency/DEFRA)
	DWQ	Drinking water quality
	EA	Environment Agency
	EQS	Environmental quality standards (for rivers etc.)
	ICRCL	Inter-departmental Commission for the Reclamation of Contaminated Land
	LQM	Land Quality Management Ltd (Land and Environmental Consultancy).
	NHBC	National House Builders Council
	SGV	Soil Guideline Values
	SPT	Standard penetration test

1. This report should be considered in relation to the objectives agreed between Worms Eye and the Client, outlined in the introduction.
2. For the work, reliance has been placed on publicly available data, obtained from the sources identified in the report. The information is not exhaustive and further information may be available from other sources. When using the information it has been assumed it is correct, and no attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and guidelines, for land and groundwater contamination, enforced by the Local Authority and the Environment Agency.
4. During the site walkover, reasonable effort was made to obtain an overview of the site. However, no attempt was made to enter areas that are unsafe, a risk to health and safety, locked, barricaded, overgrown, or areas not made accessible.
5. Access, the presence of services and activities on the site, limited locations where sampling could be carried out and the techniques that could be used.
6. Assessments are based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
7. The conclusions and recommendations provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
8. Worms Eye cannot be held responsible for any use of the report or its contents for any purpose other than that for which it was prepared. The copyright of this report, and other plans or documents prepared by Worms Eye, is owned by them, and no such plans or documents may be reproduced, published or adapted without written consent. Complete copies may be made and distributed by the client, as expected, in dealing with matters related to its commission. Should the client pass copies of the report to other parties for information, the whole report should be copied, but no professional liability, or warranties, shall be extended to other parties by Worms Eye, without their written agreement.
9. New information, revised practices, or changes in legislation, may necessitate the re-interpretation of the report, in whole or in part.

11 MALVERN CLOSE, PRESTWICH, M25 1PH
Proposed Plan Showing Area of Required Remedial Works
Not to Scale

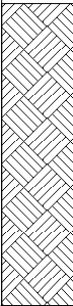


Worms Eye Limited					PO Box 1157 COLNE, BB9 4HS		Site 11 Malvern Close, Prestwich, Manchester		Trial Pit Number THA	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client		Job Number M25 1PH		
		Location Towards northwest		Dates 10/08/2023		Project Contractor Worms Eye Ltd.		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water	
						Dark brown topsoil.				
						Peat.				
						Complete at 0.60m				
Plan					Remarks					
.										
.										
.										
.										
.										
.										
					Scale (approx)		Logged By		Figure No.	
					1:10		EW		M25 1PH.THA	

Worms Eye Limited						PO Box 1157 COLNE, BB9 4HS				Site 11 Malvern Close, Prestwich, Manchester				Trial Pit Number THB	
Excavation Method Trial Pit			Dimensions				Ground Level (mOD)		Client				Job Number M25 1PH		
			Location Towards northeast				Dates 10/08/2023		Project Contractor Worms Eye Ltd.				Sheet 1/1		
Depth (m)	Sample / Tests		Water Depth (m)	Field Records		Level (mOD)	Depth (m) (Thickness)	Description				Legend	Water		
								Dark brown topsoil.							
							0.30	Peat.							
							(0.30)								
							0.60	Complete at 0.60m							
Plan							Remarks								
.	.	.	.	.	.	.	.	.	.	.	.	.	.		
.	.	.	.	.	.	.	.	.	.	.	.	.	.		
.	.	.	.	.	.	.	.	.	.	.	.	.	.		
.	.	.	.	.	.	.	.	.	.	.	.	.	.		
.	.	.	.	.	.	.	.	.	.	.	.	.	.		
.	.	.	.	.	.	.	.	.	.	.	.	.	.		
							Scale (approx)		Logged By		Figure No.				
							1:10		EW		M25 1PH.TH.B				

Worms Eye Limited					PO Box 1157 COLNE, BB9 4HS		Site 11 Malvern Close, Prestwich, Manchester		Trial Pit Number THC	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client		Job Number M25 1PH		
		Location Towards southwest		Dates 10/08/2023		Project Contractor Worms Eye Ltd.		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water	
						MADE GROUND - Dark brown topsoil with brick, gravel, glass and roots.				
						Dark brown slightly peaty topsoil with roots.				
						Complete at 0.60m				
Plan					Remarks					
					Scale (approx)		Logged By		Figure No.	
					1:10		EW		M25 1PH.THCH	

Worms Eye Limited PO Box 1157 COLNE, BB9 4HS						Site 11 Malvern Close, Prestwich, Manchester		Trial Pit Number THD	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client		Job Number M25 1PH	
		Location Towards southeast		Dates 10/08/2023		Project Contractor Worms Eye Ltd.		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
						MADE GROUND - Dark brown topsoil with roots, gravel, brick and glass.			
						Dark brown slightly peaty topsoil becoming peat.			
						Complete at 1.00m			
Plan						Remarks			
						Scale (approx) 1:10		Logged By EW	
								Figure No. M25 1PH.THd	

Worms Eye Limited PO Box 1157 COLNE, BB9 4HS						Site 11 Malvern Close, Prestwich, Manchester		Trial Pit Number THE	
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client		Job Number M25 1PH	
		Location Along northwest boundary		Dates 10/08/2023		Project Contractor Worms Eye Ltd.		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
						Dark brown topsoil.			
						Peat.			
						Complete at 0.60m			
Plan						Remarks			
						Scale (approx) 1:10		Logged By EW	Figure No. M25 1PH.THE

David Lord
Worms Eye Limited
52 Bank Parade
Burnley
Lancashire
BB11 1TS

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

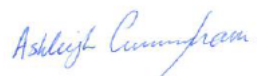
t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

e: david@wormseye.co.uk

Analytical Report Number : 23-50676

Project / Site name:	Malvern Close, Prestwich	Samples received on:	14/08/2023
Your job number:	M25 1PH	Samples instructed on/ Analysis started on:	14/08/2023
Your order number:		Analysis completed by:	21/08/2023
Report Issue Number:	1	Report issued on:	21/08/2023
Samples Analysed:	6 soil samples		

Signed:



Ashleigh Cunningham
Customer Service Manager
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

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

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.

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779591	2779592	2779593	2779594	2779595
Sample Reference				THA	THB	THC	THD	THD
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	0.25	0.25	0.90
Date Sampled				10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Time Taken				1400	1400	1400	1400	1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	42	69	29	55	85
Total mass of sample received	kg	0.001	NONE	1.8	1.5	1.6	1.7	1.8

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	MLO	MLO	MLO	MLO	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	4.4	5	7.2	7.1	U/S*
Electrical Conductivity	µS/cm	10	ISO 17025	-	-	-	-	U/S*
Total Cyanide	mg/kg	1	MCERTS	1.8	2.6	< 1.0	< 1.0	-
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.13	0.16	0.143	0.157	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	27	220	910	740	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0134	0.111	0.457	0.37	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	13.4	111	457	370	-
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0	4.4	4.8	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	6.4	-	-
Total Organic Carbon (TOC) - Manual	%	0.1	MCERTS	9.6	18	-	12	-
Redox Potential	mV	-800	NONE	-	-	-	-	228.2

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.10
Resorcinol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	-	-	-	-	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	-	-	-	-	< 0.20
2-Isopropylphenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.10
Phenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	-	-	-	-	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.3	MCERTS	-	-	-	-	< 0.30

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Total Phenols (HPLC)	mg/kg	1.3	NONE	-	-	-	-	< 1.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	3.9	6.1	2	2.7	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.12	0.25	0.15	-
Acenaphthene	mg/kg	0.05	MCERTS	0.07	< 0.05	0.41	0.16	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.32	0.12	-
Phenanthrene	mg/kg	0.05	MCERTS	0.5	0.45	5.4	2.4	-
Anthracene	mg/kg	0.05	MCERTS	0.07	0.15	1.2	0.6	-
Fluoranthene	mg/kg	0.05	MCERTS	0.71	1.3	10	7.6	-
Pyrene	mg/kg	0.05	MCERTS	0.76	1.2	8.9	7.1	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.36	0.67	4.6	3.8	-
Chrysene	mg/kg	0.05	MCERTS	0.42	0.74	4.5	3.8	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.37	0.76	5.1	5.1	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.24	0.47	2.7	1.9	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.31	0.62	4.5	4	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.15	< 0.05	2.4	2	-

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779591	2779592	2779593	2779594	2779595
Sample Reference				THA	THB	THC	THD	THD
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	0.25	0.25	0.90
Date Sampled				10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Time Taken				1400	1400	1400	1400	1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.52	0.48	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.15	< 0.05	2.4	2.3	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	7.98	12.5	55.2	44	-
-----------------------------	-------	-----	-----------	------	------	------	----	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	31	19	20	25	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S**	U/S**	U/S**	< 1.8	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	30	27	19	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	61	53	49	57	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	140	170	300	440	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	< 0.3	< 0.3	0.5	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21	21	18	21	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	63	76	140	130	-

Monoaromatics & Oxygenates

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	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	-
TPH-CWG - Aliphatic >EC5 - EC10 HS_ID_AL	mg/kg	1	NONE	-	-	-	-	< 1.0
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	25	29	24	12	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_ID_AL	mg/kg	10	NONE	27	30	27	12	-

TPH-CWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	-
TPH-CWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	-
TPH-CWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	-
TPH-CWG - Aromatic >EC5 - EC10 HS_ID_AR	mg/kg	1	NONE	-	-	-	-	< 1.0
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	2.2	2.7	4	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	4.6	3.3	5.3	2.5	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10	< 10	32	26	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	36	44	78	75	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_ID_AR	mg/kg	10	NONE	50	59	120	100	-

TPH Aliphatic (C10 - C16) EH_CU_ID_AL	mg/kg	10	NONE	-	-	-	-	< 10
TPH Aliphatic (C16 - C40) EH_CU_ID_AL	mg/kg	10	NONE	-	-	-	-	46

TPH Aromatic (C10 - C16) EH_CU_ID_AR	mg/kg	10	NONE	-	-	-	-	< 10
--------------------------------------	-------	----	------	---	---	---	---	------

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779591	2779592	2779593	2779594	2779595
Sample Reference				THA	THB	THC	THD	THD
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	0.25	0.25	0.90
Date Sampled				10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Time Taken				1400	1400	1400	1400	1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
TPH Aromatic (C16 - C40) EH_CU_ID_AR	mg/kg	10	NONE	-	-	-	-	82

Chlorinated Solvents

Total Chlorinated Solvents	µg/kg	100	NONE	-	-	-	-	< 100
----------------------------	-------	-----	------	---	---	---	---	-------

VOCs

Chloromethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Chloroethane	µg/kg	5	NONE	-	-	-	-	< 5.0
Bromomethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	-	< 5.0
1,1-dichloroethene	µg/kg	5	NONE	-	-	-	-	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	-	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	-	-	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	< 5.0
1,1-dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Chloroform	µg/kg	5	NONE	-	-	-	-	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,2-dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,1-Dichloropropene##	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Benzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Carbontetrachloride	µg/kg	5	NONE	-	-	-	-	< 5.0
1,2-dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Cis-1,3-dichloropropene##	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Tetrachloroethene	µg/kg	5	NONE	-	-	-	-	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
p & m-xylene##	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Styrene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Bromoform	µg/kg	5	NONE	-	-	-	-	< 5.0
o-xylene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Isopropylbenzene##	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Bromobenzene	µg/kg	5	NONE	-	-	-	-	< 5.0
N-Propylbenzene##	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Tert-Butylbenzene##	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779591	2779592	2779593	2779594	2779595
Sample Reference				THA	THB	THC	THD	THD
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	0.25	0.25	0.90
Date Sampled				10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Time Taken				1400	1400	1400	1400	1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Sec-Butylbenzene##	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,3-dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
P-Isopropyltoluene##	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,4-dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,2-dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Butylbenzene	µg/kg	5	NONE	-	-	-	-	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	-	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	< 5.0

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-	-	-	-	ND
VOC % Match	%	N/A	NONE	-	-	-	-	ND

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	3.2
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	0.12
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	0.09
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	0.09

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779591	2779592	2779593	2779594	2779595
Sample Reference				THA	THB	THC	THD	THD
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	0.25	0.25	0.90
Date Sampled				10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
Time Taken				1400	1400	1400	1400	1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	0.21
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	0.06
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	0.39
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	0.35
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	0.22
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	0.21
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	0.26
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	0.12
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	0.19
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Phenanthrene, substituted
SVOC % Match	%	N/A	NONE	-	-	-	-	99
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Octadecane
SVOC % Match	%	N/A	NONE	-	-	-	-	97
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Naphthalene, substituted
SVOC % Match	%	N/A	NONE	-	-	-	-	95
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Oxirane, substituted
SVOC % Match	%	N/A	NONE	-	-	-	-	95
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Pentadecane
SVOC % Match	%	N/A	NONE	-	-	-	-	94
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Tridecane, substituted
SVOC % Match	%	N/A	NONE	-	-	-	-	93
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Hexadecane
SVOC % Match	%	N/A	NONE	-	-	-	-	93
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Heneicosane
SVOC % Match	%	N/A	NONE	-	-	-	-	93
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Octadecane, substituted
SVOC % Match	%	N/A	NONE	-	-	-	-	93
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	Eicosene
SVOC % Match	%	N/A	NONE	-	-	-	-	93

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

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779596
Sample Reference				THE
Sample Number				None Supplied
Depth (m)				0.25
Date Sampled				10/08/2023
Time Taken				1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	33
Total mass of sample received	kg	0.001	NONE	1.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MLO

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	4.4
Electrical Conductivity	µS/cm	10	ISO 17025	-
Total Cyanide	mg/kg	1	MCERTS	1.5
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0
Total Sulphate as SO ₄	%	0.005	MCERTS	0.128
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	43
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0213
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	21.3
Sulphide	mg/kg	1	MCERTS	2.4
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-
Total Organic Carbon (TOC) - Manual	%	0.1	MCERTS	9.6
Redox Potential	mV	-800	NONE	-

Phenols by HPLC

Catechol	mg/kg	0.1	MCERTS	-
Resorcinol	mg/kg	0.1	MCERTS	-
Cresols (o-, m-, p-)	mg/kg	0.3	MCERTS	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	MCERTS	-
2-Isopropylphenol	mg/kg	0.1	MCERTS	-
Phenol	mg/kg	0.1	MCERTS	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	MCERTS	-
Total Xylenols and Ethylphenols	mg/kg	0.3	MCERTS	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0
Total Phenols (HPLC)	mg/kg	1.3	NONE	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	2.5
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	0.28
Anthracene	mg/kg	0.05	MCERTS	0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.63
Pyrene	mg/kg	0.05	MCERTS	0.65
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.35
Chrysene	mg/kg	0.05	MCERTS	0.43
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.61
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.21
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.21

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779596
Sample Reference				THE
Sample Number				None Supplied
Depth (m)				0.25
Date Sampled				10/08/2023
Time Taken				1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.24

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	6.5
-----------------------------	-------	-----	-----------	-----

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	27
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S**
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	92
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.4
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	91

Monoaromatics & Oxygenates

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	5	MCERTS	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.1	NONE	< 0.10
TPH-CWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.1	NONE	< 0.10
TPH-CWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.1	NONE	< 0.10
TPH-CWG - Aliphatic >EC5 - EC10 HS_ID_AL	mg/kg	1	NONE	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	34
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_ID_AL	mg/kg	10	NONE	34

TPH-CWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.1	NONE	< 0.10
TPH-CWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.1	NONE	< 0.10
TPH-CWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.1	NONE	< 0.10
TPH-CWG - Aromatic >EC5 - EC10 HS_ID_AR	mg/kg	1	NONE	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	2.7
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	5.1
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	48
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_ID_AR	mg/kg	10	NONE	65

TPH Aliphatic (C10 - C16) EH_CU_ID_AL	mg/kg	10	NONE	-
TPH Aliphatic (C16 - C40) EH_CU_ID_AL	mg/kg	10	NONE	-

TPH Aromatic (C10 - C16) EH_CU_ID_AR	mg/kg	10	NONE	-
--------------------------------------	-------	----	------	---

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779596
Sample Reference				THE
Sample Number				None Supplied
Depth (m)				0.25
Date Sampled				10/08/2023
Time Taken				1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
TPH Aromatic (C16 - C40) EH_CU_1D_AR	mg/kg	10	NONE	-

Chlorinated Solvents

Total Chlorinated Solvents	µg/kg	100	NONE	-
----------------------------	-------	-----	------	---

VOCs

Chloromethane	µg/kg	5	ISO 17025	-
Chloroethane	µg/kg	5	NONE	-
Bromomethane	µg/kg	5	ISO 17025	-
Vinyl Chloride	µg/kg	5	NONE	-
Trichlorofluoromethane	µg/kg	5	NONE	-
1,1-dichloroethene	µg/kg	5	NONE	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-
Trans 1,2-dichloroethylene	µg/kg	5	NONE	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-
1,1-dichloroethane	µg/kg	5	ISO 17025	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-
Chloroform	µg/kg	5	NONE	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-
1,2-dichloroethane	µg/kg	5	ISO 17025	-
1,1-Dichloropropene##	µg/kg	5	ISO 17025	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-
Benzene	µg/kg	5	MCERTS	-
Carbontetrachloride	µg/kg	5	NONE	-
1,2-dichloropropane	µg/kg	5	ISO 17025	-
Trichloroethene	µg/kg	5	ISO 17025	-
Dibromomethane	µg/kg	5	ISO 17025	-
Bromodichloromethane	µg/kg	5	ISO 17025	-
Cis-1,3-dichloropropene##	µg/kg	5	ISO 17025	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-
Toluene	µg/kg	5	MCERTS	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-
Dibromochloromethane	µg/kg	5	ISO 17025	-
Tetrachloroethene	µg/kg	5	NONE	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-
Chlorobenzene	µg/kg	5	ISO 17025	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-
Ethylbenzene	µg/kg	5	MCERTS	-
p & m-xylene##	µg/kg	5	MCERTS	-
Styrene	µg/kg	5	ISO 17025	-
Bromoform	µg/kg	5	NONE	-
o-xylene	µg/kg	5	MCERTS	-
Isopropylbenzene##	µg/kg	5	ISO 17025	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-
Bromobenzene	µg/kg	5	NONE	-
N-Propylbenzene##	µg/kg	5	ISO 17025	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-
Tert-Butylbenzene##	µg/kg	5	ISO 17025	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779596
Sample Reference				THE
Sample Number				None Supplied
Depth (m)				0.25
Date Sampled				10/08/2023
Time Taken				1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Sec-Butylbenzene##	µg/kg	5	ISO 17025	-
1,3-dichlorobenzene	µg/kg	5	ISO 17025	-
P-Isopropyltoluene##	µg/kg	5	ISO 17025	-
1,4-dichlorobenzene	µg/kg	5	ISO 17025	-
1,2-dichlorobenzene	µg/kg	5	ISO 17025	-
Butylbenzene	µg/kg	5	NONE	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-
Hexachlorobutadiene	µg/kg	5	NONE	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-
VOC % Match	%	N/A	NONE	-

SVOCs

Aniline	mg/kg	0.1	NONE	-
Phenol	mg/kg	0.2	ISO 17025	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-
2-Methylphenol	mg/kg	0.3	MCERTS	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-
Nitrobenzene	mg/kg	0.3	MCERTS	-
4-Methylphenol	mg/kg	0.2	NONE	-
Isophorone	mg/kg	0.2	MCERTS	-
2-Nitrophenol	mg/kg	0.3	NONE	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-
Naphthalene	mg/kg	0.05	MCERTS	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-
4-Chloroaniline	mg/kg	0.1	NONE	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-
Dibenzofuran	mg/kg	0.2	MCERTS	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-
4-Nitroaniline	mg/kg	0.2	NONE	-
Fluorene	mg/kg	0.05	MCERTS	-

Analytical Report Number: 23-50676
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779596
Sample Reference				THE
Sample Number				None Supplied
Depth (m)				0.25
Date Sampled				10/08/2023
Time Taken				1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Azobenzene	mg/kg	0.3	NONE	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Carbazole	mg/kg	0.3	MCERTS	-
Dibutyl phthalate	mg/kg	0.2	NONE	-
Anthraquinone	mg/kg	0.3	NONE	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-

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

Analytical Report Number : 23-50676

Project / Site name: Malvern Close, Prestwich

* 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 *
2779591	THA	None Supplied	0.25	Brown loam and clay with gravel and vegetation.
2779592	THB	None Supplied	0.25	Brown loam and clay with vegetation.
2779593	THC	None Supplied	0.25	Brown clay and sand with gravel and vegetation.
2779594	THD	None Supplied	0.25	Brown loam and clay with gravel and vegetation.
2779595	THD	None Supplied	0.9	Brown loam and clay with gravel and vegetation.
2779596	THE	None Supplied	0.25	Brown sandy loam with gravel and vegetation.

Analytical Report Number : 23-50676

Project / Site name: Malvern Close, Prestwich

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
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.	L038-PL	D	MCERTS
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	A001-PL	D	ISO 17025
Phenols, speciated, in soil, by HPLC	Determination of speciated phenols by HPLC.	In house method based on Blue Book Method.	L030-PL	W	MCERTS
Electrical conductivity of soil	Determination of electrical conductivity in soil by electrometric measurement.	In-house method	L031-PL	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	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
Redox Potential of soil	Determination of redox potential in soil by electrometric measurement.	In house method.	L084-PL	W	NONE
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer).	In-house method	L082-PL	D	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.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
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 (Skalar)	L080-PL	W	MCERTS

Analytical Report Number : 23-50676
Project / Site name: Malvern Close, Prestwich

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073-PL	W	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total Chlorinated Solvents in soil	Determination of chlorinated solvents in soil by headspace GC-MS.	In-house method based on USEPA8260	L017-UK	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphénylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	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.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography

Analytical Report Number : 23-50676

Project / Site name: Malvern Close, Prestwich

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))				
CU	Clean-up - e.g. by Florisil®, silica gel				
1D	GC - Single coil/column gas chromatography				
2D	GC-GC - Double coil/column gas chromatography				
Total	Aliphatics & Aromatics				
AL	Aliphatics				
AR	Aromatics				
#1	EH_2D_Total but with humics mathematically subtracted				
#2	EH_2D_Total but with fatty acids mathematically subtracted				
-	Operator - understore to separate acronyms (exception for +)				
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total				

*U/S as sample absorbed all water.

**U/S due to colour interferences.

- Quality control parameter has a high recovery (outside of limit); however the associated result is below the reporting limit, other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised.

David Lord
Worms Eye Limited
52 Bank Parade
Burnley
Lancashire
BB11 1TS

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

e: david@wormseye.co.uk

Analytical Report Number : 23-50682

Project / Site name:	Malvern Close, Prestwich	Samples received on:	14/08/2023
Your job number:	M25 1PH	Samples instructed on/ Analysis started on:	14/08/2023
Your order number:		Analysis completed by:	21/08/2023
Report Issue Number:	1	Report issued on:	21/08/2023
Samples Analysed:	2 leachate samples - 2 soil samples		



Signed:

Nicola Jupp
Senior Customer Service Advisor
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

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

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.

Analytical Report Number: 23-50682
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779652	2779654
Sample Reference				THB	THC
Sample Number				None Supplied	None Supplied
Depth (m)				0.25	0.25
Date Sampled				10/08/2023	10/08/2023
Time Taken				1400	1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	69	29
Total mass of sample received	kg	0.001	NONE	1.5	1.6

General Inorganics

pH - Manual	pH Units	N/A	MCERTS	4.8	7.1
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	6.4
Total Organic Carbon (TOC) - Manual	%	0.1	MCERTS	18	-
Loss on Ignition @ 450oC	%	0.2	MCERTS	50.7	11.7
Acid Neutralisation Capacity	mmol/kg	-999	NONE	-30	0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	2.5	1.6
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.2
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.25
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.2
Phenanthrene	mg/kg	0.05	MCERTS	0.2	3.8
Anthracene	mg/kg	0.05	MCERTS	0.07	0.98
Fluoranthene	mg/kg	0.05	MCERTS	0.58	8.9
Pyrene	mg/kg	0.05	MCERTS	0.49	7.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.29	4
Chrysene	mg/kg	0.05	MCERTS	0.31	4.1
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.38	5.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.18	1.4
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.28	3.8
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.15	1.8
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.51
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.18	2
Coronene	mg/kg	0.05	NONE	< 0.05	0.68

Total PAH

Total WAC-17 PAHs	mg/kg	0.85	NONE	5.57	47
-------------------	-------	------	------	------	----

Monoaromatics & Oxygenates

Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0

Total BTEX	µg/kg	5	MCERTS	< 5.0	< 5.0
------------	-------	---	--------	-------	-------

Petroleum Hydrocarbons

Mineral Oil (C10 - C40) EH, CU, ID, AL	mg/kg	10	NONE	52	< 10
---	-------	----	------	----	------

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	< 0.001

Analytical Report Number: 23-50682
Project / Site name: Malvern Close, Prestwich

Lab Sample Number				2779652	2779654
Sample Reference				THB	THC
Sample Number				None Supplied	None Supplied
Depth (m)				0.25	0.25
Date Sampled				10/08/2023	10/08/2023
Time Taken				1400	1400
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	< 0.001

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	< 0.007	< 0.007
------------	-------	-------	--------	---------	---------

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

i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	23-50682						
					Client: WORMSEYE		
Location	Malvern Close, Prestwich						
Lab Reference (Sample Number)	2779652 / 2779653				Landfill Waste Acceptance Criteria		
Sampling Date	10/08/2023				Limits		
Sample ID	THB				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.25						
Solid Waste Analysis							
TOC (%)**	18				3%	5%	6%
Loss on Ignition (%) **	50.7				--	--	10%
BTEX (µg/kg)**	< 5.0				6000	--	--
Sum of PCBs (mg/kg)**	< 0.007				1	--	--
Mineral Oil (mg/kg) _{PH_ID_CU_AL}	52				500	--	--
Total PAH (WAC-17) (mg/kg)	5.57				100	--	--
pH (units)**	4.8				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	-30				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0033			0.0326	0.5	2	25
Barium *	0.0641			0.641	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0018			0.018	0.5	10	70
Copper *	0.057			0.57	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0005			0.0048	0.5	10	30
Nickel *	0.0049			0.049	0.4	10	40
Lead *	0.012			0.12	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.028			0.28	4	50	200
Chloride *	1.6			16	800	15000	25000
Fluoride*	0.081			0.80	10	150	500
Sulphate *	7.0			70	1000	20000	50000
TDS*	28			280	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	42.3			423	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.5						
Dry Matter (%)	31						
Moisture (%)	69						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	23-50682						
					Client: WORMSEYE		
Location	Malvern Close, Prestwich						
Lab Reference (Sample Number)	2779654 / 2779655				Landfill Waste Acceptance Criteria		
Sampling Date	10/08/2023				Limits		
Sample ID	THC				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.25						
Solid Waste Analysis							
TOC (%)**	6.4				3%	5%	6%
Loss on Ignition (%) **	11.7				--	--	10%
BTEX (µg/kg)**	< 5.0				6000	--	--
Sum of PCBs (mg/kg)**	< 0.007				1	--	--
Mineral Oil (mg/kg) CH,10,CU,AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	47.0				100	--	--
pH (units)**	7.1				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	0.00				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0030			0.0305	0.5	2	25
Barium *	0.219			2.19	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0004			0.0040	0.5	10	70
Copper *	0.013			0.13	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0048			0.0476	0.5	10	30
Nickel *	< 0.0003			< 0.0030	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.022			0.21	4	50	200
Chloride *	0.97			9.7	800	15000	25000
Fluoride*	0.25			2.5	10	150	500
Sulphate *	890			8900	1000	20000	50000
TDS*	950			9500	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	43.4			434	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.6						
Dry Matter (%)	71						
Moisture (%)	29						
Results are expressed on a dry weight basis, after correction for moisture content where applicable.				* = UKAS accredited (liquid eluate analysis only)			
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation				** = MCERTS accredited			

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Analytical Report Number : 23-50682

Project / Site name: Malvern Close, Prestwich

* 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 *
2779652	THB	None Supplied	0.25	Brown loam and clay with vegetation.
2779654	THC	None Supplied	0.25	Brown clay and sand with gravel and vegetation.

Analytical Report Number : 23-50682

Project / Site name: Malvern Close, Prestwich

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance"	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270.	L064-PL	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
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.	L019-UK/PL	D	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.	In house method.	L009-PL	D	MCERTS
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023-PL	D	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025

Analytical Report Number : 23-50682

Project / Site name: Malvern Close, Prestwich

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by EC probe using a factor of 0.6.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031-PL	W	ISO 17025
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

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 30°C.

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.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- understand the origin of the waste
- select the correct List of Waste code(s)
- confirm that the list of determinands, results and sampling plan are fit for purpose
- select and justify the chosen metal species (Appendix B)
- correctly apply moisture correction and other available corrections
- add the meta data for their user-defined substances (Appendix A)
- check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)



75D9J-P2RD1-5W522

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

Job name

11 Malvern Close, Prestwich, Manchester, M25 1PH

Description/Comments

Project

11 Malvern Close, Prestwich, Manchester, M25 1PH

Site

11 Malvern Close, Prestwich, Manchester, M25 1PH

Classified by

Name: Emma Whitaker
Date: 22 Aug 2023 12:35 GMT
Telephone: 01282 414649
Company: Worms Eye Ltd
1st Floor Block C, The Wharf
Manchester Road
Burnley
BB11 1JG

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

-

Purpose of classification

2 - Material Characterisation

Address of the waste

11 Malvern Close, Prestwich, Manchester, M25 1PH

Post Code M25 1PH

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of site.

Description of the specific process, sub-process and/or activity that created the waste

Excavation of soil.

Description of the waste

Excavation of soil.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	THA	0.25	Non Hazardous		3
2	THB	0.25	Non Hazardous		6
3	THC	0.25	Non Hazardous		9
4	THD - 0.25m	0.25	Non Hazardous		12
5	THD - 0.90m	0.90	Non Hazardous		15
6	THE	0.25	Non Hazardous		17

Related documents

#	Name	Description
1	Worms Eye v3	waste stream template used to create this Job

Report

Created by: Emma Whitaker

Created date: 22 Aug 2023 12:35 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	20
Appendix B: Rationale for selection of metal species	21
Appendix C: Version	21

Classification of sample: THA

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
THA	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
42%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 42% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				31 mg/kg	1.32	40.93 mg/kg	0.00409 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22 mg/kg	1.462	32.154 mg/kg	0.00322 %			
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				61 mg/kg	1.126	68.679 mg/kg	0.00687 %			
	029-002-00-X	215-270-7	1317-39-1								
5	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1.8 mg/kg	1.884	3.391 mg/kg	0.000339 %			
	006-007-00-5										
6	lead { lead chromate }			1	140 mg/kg	1.56	218.374 mg/kg	0.014 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				0.7 mg/kg	1.353	0.947 mg/kg	0.0000947 %			
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel dihydroxide }				21 mg/kg	1.579	33.169 mg/kg	0.00332 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
9	pH				4.4 pH		4.4 pH	4.4 pH			
10	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
12	zinc { zinc oxide }				63 mg/kg	1.245	78.417 mg/kg	0.00784 %			
	030-013-00-7	215-222-5	1314-13-2								
13	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	TPH (C6 to C40) petroleum group		TPH		77 mg/kg		77 mg/kg	0.0077 %		
18	acenaphthene 201-469-6	83-32-9			0.07 mg/kg		0.07 mg/kg	0.000007 %		
19	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	anthracene 204-371-1	120-12-7			0.07 mg/kg		0.07 mg/kg	0.000007 %		
21	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.36 mg/kg		0.36 mg/kg	0.000036 %		
22	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.31 mg/kg		0.31 mg/kg	0.000031 %		
23	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.37 mg/kg		0.37 mg/kg	0.000037 %		
24	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.24 mg/kg		0.24 mg/kg	0.000024 %		
25	benzo[ghi]perylene 205-883-8	191-24-2			0.15 mg/kg		0.15 mg/kg	0.000015 %		
26	chrysene 601-048-00-0	205-923-4	218-01-9		0.42 mg/kg		0.42 mg/kg	0.000042 %		
27	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	fluoranthene 205-912-4	206-44-0			0.71 mg/kg		0.71 mg/kg	0.000071 %		
29	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	indeno[123-cd]pyrene 205-893-2	193-39-5			0.15 mg/kg		0.15 mg/kg	0.000015 %		
31	naphthalene 601-052-00-2	202-049-5	91-20-3		3.9 mg/kg		3.9 mg/kg	0.00039 %		
32	phenanthrene 201-581-5	85-01-8			0.5 mg/kg		0.5 mg/kg	0.00005 %		
33	pyrene 204-927-3	129-00-0			0.76 mg/kg		0.76 mg/kg	0.000076 %		
34	asbestos 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
Total:								0.0485 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Low level, below threshold.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0077%)

Classification of sample: THB

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
THB	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m	
Moisture content:	
69%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 69% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				19 mg/kg	1.32	25.086 mg/kg	0.00251 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				30 mg/kg	1.462	43.847 mg/kg	0.00438 %			
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				53 mg/kg	1.126	59.672 mg/kg	0.00597 %			
	029-002-00-X	215-270-7	1317-39-1								
5	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				2.6 mg/kg	1.884	4.898 mg/kg	0.00049 %			
	006-007-00-5										
6	lead { lead chromate }			1	170 mg/kg	1.56	265.169 mg/kg	0.017 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel dihydroxide }				21 mg/kg	1.579	33.169 mg/kg	0.00332 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
9	pH		PH		5 pH		5 pH	5pH			
10	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
12	zinc { zinc oxide }				76 mg/kg	1.245	94.598 mg/kg	0.00946 %			
	030-013-00-7	215-222-5	1314-13-2								
13	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	TPH (C6 to C40) petroleum group		TPH		89 mg/kg		89 mg/kg	0.0089 %		
18	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	acenaphthylene 205-917-1	208-96-8			0.12 mg/kg		0.12 mg/kg	0.000012 %		
20	anthracene 204-371-1	120-12-7			0.15 mg/kg		0.15 mg/kg	0.000015 %		
21	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.67 mg/kg		0.67 mg/kg	0.000067 %		
22	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.62 mg/kg		0.62 mg/kg	0.000062 %		
23	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.76 mg/kg		0.76 mg/kg	0.000076 %		
24	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.47 mg/kg		0.47 mg/kg	0.000047 %		
25	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	chrysene 601-048-00-0	205-923-4	218-01-9		0.74 mg/kg		0.74 mg/kg	0.000074 %		
27	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	fluoranthene 205-912-4	206-44-0			1.3 mg/kg		1.3 mg/kg	0.00013 %		
29	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	naphthalene 601-052-00-2	202-049-5	91-20-3		6.1 mg/kg		6.1 mg/kg	0.00061 %		
32	phenanthrene 201-581-5	85-01-8			0.45 mg/kg		0.45 mg/kg	0.000045 %		
33	pyrene 204-927-3	129-00-0			1.2 mg/kg		1.2 mg/kg	0.00012 %		
34	asbestos 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
Total:								0.0536 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Low level, below threshold.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0089%)

Classification of sample: THC

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
THC	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
29%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				20 mg/kg	1.32	26.407 mg/kg	0.00264 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27 mg/kg	1.462	39.462 mg/kg	0.00395 %			
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				49 mg/kg	1.126	55.169 mg/kg	0.00552 %			
	029-002-00-X	215-270-7	1317-39-1								
5	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
6	lead { lead chromate }			1	300 mg/kg	1.56	467.945 mg/kg	0.03 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel dihydroxide }				18 mg/kg	1.579	28.431 mg/kg	0.00284 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
9	pH				7.2 pH		7.2 pH	7.2 pH			
10	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
12	zinc { zinc oxide }				140 mg/kg	1.245	174.26 mg/kg	0.0174 %			
	030-013-00-7	215-222-5	1314-13-2								
13	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	TPH (C6 to C40) petroleum group		TPH		147 mg/kg		147 mg/kg	0.0147 %		
18	acenaphthene 201-469-6	83-32-9			0.41 mg/kg		0.41 mg/kg	0.000041 %		
19	acenaphthylene 205-917-1	208-96-8			0.25 mg/kg		0.25 mg/kg	0.000025 %		
20	anthracene 204-371-1	120-12-7			1.2 mg/kg		1.2 mg/kg	0.00012 %		
21	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		4.6 mg/kg		4.6 mg/kg	0.00046 %		
22	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		4.5 mg/kg		4.5 mg/kg	0.00045 %		
23	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		5.1 mg/kg		5.1 mg/kg	0.00051 %		
24	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		2.7 mg/kg		2.7 mg/kg	0.00027 %		
25	benzo[ghi]perylene 205-883-8	191-24-2			2.4 mg/kg		2.4 mg/kg	0.00024 %		
26	chrysene 601-048-00-0	205-923-4	218-01-9		4.5 mg/kg		4.5 mg/kg	0.00045 %		
27	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.52 mg/kg		0.52 mg/kg	0.000052 %		
28	fluoranthene 205-912-4	206-44-0			10 mg/kg		10 mg/kg	0.001 %		
29	fluorene 201-695-5	86-73-7			0.32 mg/kg		0.32 mg/kg	0.000032 %		
30	indeno[123-cd]pyrene 205-893-2	193-39-5			2.4 mg/kg		2.4 mg/kg	0.00024 %		
31	naphthalene 601-052-00-2	202-049-5	91-20-3		2 mg/kg		2 mg/kg	0.0002 %		
32	phenanthrene 201-581-5	85-01-8			5.4 mg/kg		5.4 mg/kg	0.00054 %		
33	pyrene 204-927-3	129-00-0			8.9 mg/kg		8.9 mg/kg	0.00089 %		
34	asbestos 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
Total:								0.0831 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Low level, below threshold.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0147%)

Classification of sample: THD - 0.25m

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
THD - 0.25m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
55%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **55% No Moisture Correction applied (MC)**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				25	mg/kg	1.32	33.008	mg/kg	0.0033 %	
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %	<LOD
		048-010-00-4	215-147-8	1306-23-6								
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19	mg/kg	1.462	27.77	mg/kg	0.00278 %	
			215-160-9	1308-38-9								
4		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.8	mg/kg	1.923	<3.462	mg/kg	<0.000346 %	<LOD
		024-001-00-0	215-607-8	1333-82-0								
5		copper { dicopper oxide; copper (I) oxide }				57	mg/kg	1.126	64.176	mg/kg	0.00642 %	
		029-002-00-X	215-270-7	1317-39-1								
6		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %	<LOD
		006-007-00-5										
7		lead { lead chromate }			1	440	mg/kg	1.56	686.319	mg/kg	0.044 %	
		082-004-00-2	231-846-0	7758-97-6								
8		mercury { mercury dichloride }				0.5	mg/kg	1.353	0.677	mg/kg	0.0000677 %	
		080-010-00-X	231-299-8	7487-94-7								
9		nickel { nickel dihydroxide }				21	mg/kg	1.579	33.169	mg/kg	0.00332 %	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
10		pH		PH		7.1	pH		7.1	pH	7.1 pH	
11		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %	<LOD
		604-001-00-2	203-632-7	108-95-2								
12		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %	<LOD
		034-002-00-8										
13		zinc { zinc oxide }				130	mg/kg	1.245	161.813	mg/kg	0.0162 %	
		030-013-00-7	215-222-5	1314-13-2								

WORMS EYE LIMITED

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	TPH (C6 to C40) petroleum group				112 mg/kg		112 mg/kg	0.0112 %		
			TPH							
19	acenaphthene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
		201-469-6	83-32-9							
20	acenaphthylene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
		205-917-1	208-96-8							
21	anthracene				0.6 mg/kg		0.6 mg/kg	0.00006 %		
		204-371-1	120-12-7							
22	benzo[a]anthracene				3.8 mg/kg		3.8 mg/kg	0.00038 %		
	601-033-00-9	200-280-6	56-55-3							
23	benzo[a]pyrene; benzo[def]chrysene				4 mg/kg		4 mg/kg	0.0004 %		
	601-032-00-3	200-028-5	50-32-8							
24	benzo[b]fluoranthene				5.1 mg/kg		5.1 mg/kg	0.00051 %		
	601-034-00-4	205-911-9	205-99-2							
25	benzo[k]fluoranthene				1.9 mg/kg		1.9 mg/kg	0.00019 %		
	601-036-00-5	205-916-6	207-08-9							
26	benzo[ghi]perylene				2.3 mg/kg		2.3 mg/kg	0.00023 %		
		205-883-8	191-24-2							
27	chrysene				3.8 mg/kg		3.8 mg/kg	0.00038 %		
	601-048-00-0	205-923-4	218-01-9							
28	dibenz[a,h]anthracene				0.48 mg/kg		0.48 mg/kg	0.000048 %		
	601-041-00-2	200-181-8	53-70-3							
29	fluoranthene				7.6 mg/kg		7.6 mg/kg	0.00076 %		
		205-912-4	206-44-0							
30	fluorene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
		201-695-5	86-73-7							
31	indeno[123-cd]pyrene				2 mg/kg		2 mg/kg	0.0002 %		
		205-893-2	193-39-5							
32	naphthalene				2.7 mg/kg		2.7 mg/kg	0.00027 %		
	601-052-00-2	202-049-5	91-20-3							
33	phenanthrene				2.4 mg/kg		2.4 mg/kg	0.00024 %		
		201-581-5	85-01-8							
34	pyrene				7.1 mg/kg		7.1 mg/kg	0.00071 %		
		204-927-3	129-00-0							
35	asbestos				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								0.0925 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Low level, below threshold.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0112%)

Classification of sample: THD - 0.90m

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
THD - 0.90m	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
85%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 85% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	phenol				<1.3 mg/kg		<1.3 mg/kg	<0.00013 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
2	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
3	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
4	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
5	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
6	TPH (C6 to C40) petroleum group				150 mg/kg		150 mg/kg	0.015 %		
			TPH							
7	acenaphthene				0.09 mg/kg		0.09 mg/kg	0.000009 %		
		201-469-6	83-32-9							
8	acenaphthylene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
		205-917-1	208-96-8							
9	anthracene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
		204-371-1	120-12-7							
10	benzo[a]anthracene				0.22 mg/kg		0.22 mg/kg	0.000022 %		
	601-033-00-9	200-280-6	56-55-3							
11	benzo[a]pyrene; benzo[def]chrysene				0.19 mg/kg		0.19 mg/kg	0.000019 %		
	601-032-00-3	200-028-5	50-32-8							
12	benzo[b]fluoranthene				0.26 mg/kg		0.26 mg/kg	0.000026 %		
	601-034-00-4	205-911-9	205-99-2							
13	benzo[k]fluoranthene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
	601-036-00-5	205-916-6	207-08-9							
14	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
15	chrysene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
	601-048-00-0	205-923-4	218-01-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
17	fluoranthene				0.39 mg/kg		0.39 mg/kg	0.000039 %			
		205-912-4	206-44-0								
18	fluorene				0.09 mg/kg		0.09 mg/kg	0.000009 %			
		201-695-5	86-73-7								
19	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
20	naphthalene				3.2 mg/kg		3.2 mg/kg	0.00032 %			
	601-052-00-2	202-049-5	91-20-3								
21	phenanthrene				0.21 mg/kg		0.21 mg/kg	0.000021 %			
		201-581-5	85-01-8								
22	pyrene				0.35 mg/kg		0.35 mg/kg	0.000035 %			
		204-927-3	129-00-0								
Total:									0.0157 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because Low level, below threshold.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.015%)

Classification of sample: THE

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:	LoW Code:
THE	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
33%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 33% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				27 mg/kg	1.32	35.649 mg/kg	0.00356 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium sulfide }			1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %			<LOD
	048-010-00-4	215-147-8	1306-23-6								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16 mg/kg	1.462	23.385 mg/kg	0.00234 %			
		215-160-9	1308-38-9								
4	copper { dicopper oxide; copper (I) oxide }				92 mg/kg	1.126	103.582 mg/kg	0.0104 %			
	029-002-00-X	215-270-7	1317-39-1								
5	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1.5 mg/kg	1.884	2.826 mg/kg	0.000283 %			
	006-007-00-5										
6	lead { lead chromate }			1	130 mg/kg	1.56	202.776 mg/kg	0.013 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				0.4 mg/kg	1.353	0.541 mg/kg	0.0000541 %			
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel dihydroxide }				21 mg/kg	1.579	33.169 mg/kg	0.00332 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
9	pH				4.4 pH		4.4 pH	4.4 pH			
10	phenol				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
12	zinc { zinc oxide }				91 mg/kg	1.245	113.269 mg/kg	0.0113 %			
	030-013-00-7	215-222-5	1314-13-2								
13	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	TPH (C6 to C40) petroleum group		TPH		99 mg/kg		99 mg/kg	0.0099 %		
18	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	anthracene 204-371-1	120-12-7			0.05 mg/kg		0.05 mg/kg	0.000005 %		
21	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.35 mg/kg		0.35 mg/kg	0.000035 %		
22	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.35 mg/kg		0.35 mg/kg	0.000035 %		
23	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.61 mg/kg		0.61 mg/kg	0.000061 %		
24	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.21 mg/kg		0.21 mg/kg	0.000021 %		
25	benzo[ghi]perylene 205-883-8	191-24-2			0.24 mg/kg		0.24 mg/kg	0.000024 %		
26	chrysene 601-048-00-0	205-923-4	218-01-9		0.43 mg/kg		0.43 mg/kg	0.000043 %		
27	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	fluoranthene 205-912-4	206-44-0			0.63 mg/kg		0.63 mg/kg	0.000063 %		
29	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	indeno[123-cd]pyrene 205-893-2	193-39-5			0.21 mg/kg		0.21 mg/kg	0.000021 %		
31	naphthalene 601-052-00-2	202-049-5	91-20-3		2.5 mg/kg		2.5 mg/kg	0.00025 %		
32	phenanthrene 201-581-5	85-01-8			0.28 mg/kg		0.28 mg/kg	0.000028 %		
33	pyrene 204-927-3	129-00-0			0.65 mg/kg		0.65 mg/kg	0.000065 %		
34	asbestos 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
Total:								0.0551 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because Low level, below threshold.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0099%)

Appendix A: Classifier defined and non GB MCL determinands

■ **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332, Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Resp. Sens. 1; H334, Skin Sens. 1; H317, Repr. 1B; H360FD, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

■ **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226, Asp. Tox. 1; H304, STOT RE 2; H373, Muta. 1B; H340, Carc. 1B; H350, Repr. 2; H361d, Aquatic Chronic 2; H411

■ **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Aquatic Chronic 2; H411

■ **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 1; H330, Acute Tox. 1; H310, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315

■ **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410

■ **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

• **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

• **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species

lead {lead chromate}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species based on hazard statements

zinc {zinc oxide}

Suspected

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species based on hazard statements

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**
HazWasteOnline Classification Engine Version: 2023.233.5726.10550 (21 Aug 2023)
HazWasteOnline Database: 2023.233.5726.10550 (21 Aug 2023)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

Risk assessment for water pipes (RA)

The risk assessment for water pipes will help you choose appropriate materials for your development. We are happy to deal with a risk assessment for water pipes in advance of any formal application for a new water supply.

If you need any help completing the form please call us on **0345 072 6067**.

Section 1: Development details	
Development name <i>(if it has one)</i>	11 MALVERN CLOSE
Development address	11 MALVERN CLOSE, PRESTWICH, M25 1PH
OS Grid reference <i>(mid point)</i>	382139, 404223
Developer's name	Convert Your Garage
UUW reference number <i>(for UU use only)</i>	
Please provide details below of the current and historical use of the site and adjacent sites. <i>If your supporting information has details of the current and historical site use, please reference below the relevant sections of your report.</i> The site was undeveloped until the existing house was built circa 1930s. There has been no use from which high levels of contaminants would be expected. However, demolition rubble is present at the surface in places and suspected made ground is visible. These can contain raised levels of contaminants, at low levels which can exceed stringent residential thresholds.	
Section 2: Preliminary risk assessment	
Has your desk study and site walkover identified any land potentially affected by contamination?	☒ Yes ☐ No
If the site is potentially affected by contamination but you have not completed any intrusive site investigation please provide details below of the rationale behind the intended pipe selection. <i>If your supporting information has details of the rationale behind the intended pipe selection, please reference below the relevant sections of your report.</i> N/A	

Section 3: Intrusive site investigation																																	
Have you completed any intrusive site investigation?					☒ Yes ☐ No																												
Have you completed any none intrusive site investigation?					☒ Yes ☐ No																												
Date(s) when the site investigation(s) undertaken					<table border="1"> <tr> <td>2</td><td>8</td> <td>0</td><td>3</td> <td>2</td><td>0</td><td>2</td><td>3</td> </tr> <tr> <td>0</td><td>6</td> <td>0</td><td>9</td> <td>2</td><td>0</td><td>2</td><td>3</td> </tr> <tr> <td>D</td><td>D</td> <td>M</td><td>M</td> <td>Y</td><td>Y</td><td>Y</td><td>Y</td> </tr> </table>					2	8	0	3	2	0	2	3	0	6	0	9	2	0	2	3	D	D	M	M	Y	Y	Y	Y
2	8	0	3	2	0	2	3																										
0	6	0	9	2	0	2	3																										
D	D	M	M	Y	Y	Y	Y																										
At what level has groundwater been encountered?					metres below ground level or ☒ Not encountered																												
Table 1 (Pipeline Selection Risk Assessment Summary (PSRAS)) below classifies testing required where the preliminary risk assessment has identified land potentially affected by contamination. Please provide details below of any test groups which have not been tested and the rationale for not testing. <i>If your supporting information has details of the rationale behind not testing any particular test groups, please reference below the relevant sections of your report.</i>																																	
N/A																																	
If the intrusive site investigation has identified concentrations above the PE threshold (see PSRAS) and your intended pipe selection is PE. Please provide details below of the rationale behind the intended pipe selection. <i>If your supporting information has details of the rationale behind the intended pipe selection, please reference below the relevant sections of your report.</i>																																	
N/A																																	
Section 4: Site remediation																																	
Please provide details below of any site remediation (which may include a change in site levels) already completed. <i>If your supporting information has details of the site remediation already completed, please reference below the relevant sections of your report.</i>																																	
No remedial works have been completed.																																	
Has the PSRAS (Table 1) been completed using appropriate data after remediation?								☐ Yes ☒ No ☐ N/A																									
Please provide details below of any proposed site remediation and an analysis of whether this will affect your intended pipe selection. <i>If your supporting information has details of any proposed site remediation and whether this will affect your intended pipe selection, please reference below the relevant sections of your report.</i>																																	
Contamination by lead and PAHs was found to be present in made ground at the front (southeast) and the suggested method is to remove the source by excavating the contaminated material beneath gardens, paths, patios and other non-permanent hard-surfaced areas and disposing off site. The gardens to then be backfill with clean, imported, soils. An alternative is to create a hard-surfaced driveway at the front of the property. The remedial works will not affect the pipe selection.																																	

Section 5: Final use of site

Please provide details below of any chemicals (including fuel) to be stored on site and any other future contamination risks which may affect your intended pipe selection.

If your supporting information has details of potential contamination risks which may affect your intended pipe selection, please reference below the relevant sections of your report.

There are no proposals to store chemicals on site.

What water pipe materials are intended to be used on site?

☒ PE ☐ PE Barrier Pipe Type A ☐ PE Barrier Pipe Type B
Other (please specify):

Section 6: Additional information

Please use the section below to provide any additional details to support your intended pipe selection.

N/A

Section 7: Risk assessor

Name and relevant qualifications of person directing the risk assessment for water pipes

Graham Cannon, BSc, MICE, FGS, CEnv, CEng

Name and address of risk assessor's company

Worms Eye Ltd
PO Box 1157
Colne
BB9 4HS

Date risk assessment performed

1 2 0 9 2 0 2 3

Section 8: Declaration

I confirm I have completed this form and provided supporting information in accordance with 'UKWIR Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites' and UUW's Supplementary Guidance. I also confirm that if any further site investigation is needed and carried out, I will be required to submit an additional Risk Assessment for Water Pipes with the relevant supporting information. I understand that failure to supply any of the required information may delay my application being processed.

Name	Graham Cannon	Company	Worms Eye Ltd
Telephone	01282 414649	Date	1 2 0 9 2 0 2 3

Please email the completed form and supporting information to **DeveloperServicesWater@uuplc.co.uk** or post to us at United Utilities Water, Developer Services, Second floor Grasmere House, Lingley Mere, Warrington WA5 3LP.



About us

United Utilities is the North West's water company. We keep the taps flowing and toilets flushing for seven million customers every day. From Crewe to Carlisle, we work hard behind the scenes to help your life flow smoothly.

United Utilities Water Limited, Haweswater House, Lingley Mere Business Park, Lingley Green Avenue, Warrington WA5 3LP.
Registered in England and Wales. Registered Number 2366678.

Table 1 - Pipe selection risk assessment summary (PSRAS)

1. Testing must be undertaken on the materials within which the pipes are to be laid, whether that be existing ground materials, remediated materials or imported capping materials. Please use the appropriate testing data to complete Table 1 below.

2. If more than one pipe selection is being made, for example, for pipes in different areas of a large site, a completed PSRAS is required for each selection.

What materials have been tested to populate Table 1 below?

☒ Existing ground materials ☐ Remediated materials ☐ Imported capping materials

All concentrations in mg/kg								
Test Group	Testing Required?	PE threshold	Metal Pipes/ Barrier Pipe	Laboratory Detection Limit	Testing UKAS accredited Y/N	Maximum concentration at proposed pipeline depth See Note [2]	Maximum site concentration See Note [3]	Locations and depths where concentrations exceed proposed pipeline threshold
Total VOCs	Where Preliminary Risk Assessment (PRA) has identified land potentially affected by contamination	0.5	Pass	0.005	y	<0.005	<0.005	
Total BTEX & MTBE		0.1	Pass	0.005	Y	<0.005	<0.005	
Total SVOCs (excluding PAHs and those substances marked with an *)		2	Pass	0.3	Y	<0.3	<0.3	
EC5-EC10 aliphatic and aromatic hydrocarbons		2	Pass	1	N	<1	<0.1	
EC10-EC16 aliphatic and aromatic hydrocarbons		10	Pass	1	N	<1	9.3	
EC16-EC40 aliphatic and aromatic hydrocarbons		500	Pass	10	N	46	134	
Phenols* (from SVOC analysis)		2	Pass	1	Y	<1	<1.3	
Cresols and chlorinated phenols* (from SVOC analysis)		2	Pass	0.3	Y	<0.3	<0.3	
Ethers*	Only where identified	0.5	Pass					
Nitrobenzene*		0.5	Pass					
Ketones*		0.5	Pass					
Aldehydes*		0.5	Pass					
Amines		Fail	Pass					
Corrosive	Conductivity, Redox and pH	Pass	See Note [1]					

Note [1] Threshold: For wrapped steel, corrosive if pH<7 and conductivity > 400µS/cm. For wrapped ductile iron corrosive if pH<5, Eh not neutral and conductivity > 400µS/cm. For copper, corrosive if pH<5 or >8 and Eh positive.

Note [2] Water pipes are normally laid at 0.75-1.35m below finished ground level.

Note [3] Also state if liquid free product is present in soil or groundwater.