

Vital Energi Ltd

E-mail only: andrew.woods@vitalenergi.co.uk

Andrew Wood
Managing Quantity Surveyor

12 August 2024

Subject: Factual Report – Trial Pitting July 2024

Our ref: L-22714-2.4.2-24-536

Dear Mr. Wood,

IDOM Merebrook Ltd (IDOM) have been commissioned Vital Energi to carry out a site investigation at a site known as Sofidel, Swansea. The site is located on Sofidel UK Ltd, Brunel Way, Baglan Energy Park, Briton Ferry SA11 2HZ. Currently, this site comprises a tissue paper manufacturing facility operated by Sofidel UK Limited.

The purpose of this letter report is to provide factual observations regarding the ground investigation undertaken by IDOM, focusing on the presence of asbestos. This IDOM investigation was undertaken in the western region of the Sofidel factory, an area previously investigated where it was identified that asbestos was a contaminant of concern.

Previous investigation

The investigation was undertaken through a series of boreholes which were sampled by Sub Surface North West Ltd (Sub Surface).

- *Ground investigation report for sofidel uk limited, brunel way, briton ferry, neath port talbot, sa11 2hz prepared for Vital Energi report no. M3822a May 2024; M3822A Phase II Ground Investigation Report 31-5-24*

Eight made ground samples were analysed for a broad suite of contaminants including asbestos. A summary table showing the location ID, depths type of asbestos and quantifications are provided below.

Table 1: Summary of Subsurface asbestos detection

Location	Depth (m)	Asbestos Type	Description	Quantification w/w %
M1	0.13-0.80	Chrysotile, Amosite	Bundles of Chrysotile & Amosite fibres	0.035%
M2	0.70-1.20	NAD	none	N/A
M3	0.14-0.40	Chrysotile	Bundles of Chrysotile fibres	0.003
M4	0.13-0.60	NAD	none	N/A

Location	Depth (m)	Asbestos Type	Description	Quantification w/w %
BH1	0.13-0.70	Chrysotile	Bundles of visible & microscopic Chrysotile fibres	0.034
BH2	0.20-0.40	NAD	none	N/A
BH2	2.00-2.45	NAD	none	N/A
BH3	0.18-1.20	Chrysotile	Bundles of Chrysotile fibres	0.003

Scope of works

To effectively address asbestos contamination at the Sofidel site, the scope of works includes:

- Asbestos Survey: Conduct a site survey to identify and map all asbestos-containing materials (ACMs) in the soil. The investigation involves excavating six trial pits to gain a comprehensive understanding of asbestos distribution in the soils;
- Risk Assessment: Assess health risks based on the analysis results and recommend measures to minimize risks to site operatives for future work; and
- Report Production: Produce a factual report detailing the findings, analysis, and recommendations from the investigation.

Ground Investigation

When locating the position of the trial pits a targeted approach was undertaken. Where the initial investigation has identified asbestos, trial pits were located to provide quantification on the amount of asbestos and also to fill in data gaps.

Six trial pits were undertaken terminating in natural soils where identified, the maximum depth achieved was 1.70 m bgl. During the trial pitting exercise, soil samples were obtained for asbestos analysis. The Exploratory Hole Location Plan and associated photographs can be found appended to this letter report.

Ground Conditions

IDOM's investigation across the site reveals a consistent pattern of made ground overlying natural sandy strata. The surface layer consists predominantly of bituminous macadam, followed by a Type 1 stone aggregate sub-layer. Below these, the subsurface materials include various compositions of made ground. A general site stratigraphy is outline in table 2 below:

Table 2: Summary of positive asbestos results.

Strata ID	Name	Approximate Depth (m)	Description
MG1	Made Ground	0.0-0.2	Bituminous macadam.
MG2	Made Ground	0.2-0.3	Type 1 stone aggregate sub-layer

Strata ID	Name	Approximate Depth (m)	Description
MG3	Made Ground	0.3-0.9	Black Silty Sandy Gravel: This layer includes coarse gravel composed of brick, stone, clinker, slag, and occasional inclusions of metal rebar or glass
MG4	Made Ground	0.9-1.3	Dark Brown Slightly Gravelly Sand: Comprising fine to coarse sand with rare fragments of plastic, glass, ceramics, and fine to coarse grained slag.
MG5	Made Ground	0.8-1.7	Light Brown Reworked Sand: Slightly gravelly sand mixed with brick and stone fragments, indicating reworked materials.
NG1	Natural Ground	0.6-1.8	Dark Brown Gravelly Sand: Coarse sand mixed with gravel, brick, stone, and cobbles of slag, showing variability in the composition.

At greater depths, the natural strata primarily consist of orangish brown fine to coarse grained sand, suggesting the presence of natural soil layers beneath the artificial fill. The full exploratory hole logs are attached to this letter report.

Contamination Results

During the IDOM investigations, a total of 10 No. Made Ground samples were analysed for a Merebrook suite which is a broad suite of contaminants.

Merebrook Suite:

Arsenic	Selenium	pH
Cadmium	Copper	Sulphate Water Soluble
Chromium III	Nickel	Mercury
Chromium VI	Zinc	PAHs – including naphthalene
Lead	Vanadium	Phenols Monohydric
TOC – total organic carbon	Organic Matter	TPH CWG inc. BTEX & MTBE
Barium	Asbestos	Cyanide

An initial screening exercise has been undertaken whereby contaminant concentrations recorded in soils have been assessed against Suitable for Use Levels (S4ULs) published in 2015 by LQM/CIEH. These precautionary screening levels are designed to be representative of minimal risk to human health in a number of land use scenarios. In this report S4ULs have been selected for a commercial land use where the possibility of consumption of homegrown produce does not exist and assuming a soil organic matter of 2.5 %. For lead the DEFRA Category 4 Screening Level has been used as this is based on updated toxicological data and a low risk to human health. The chemical analysis results are summarised in Table 3 below.

Table 3: Chemical analysis of soils against S4ULs in a commercial land use scenario

CONTAMINANT	No of Tests	MAX (mg.kg ⁻¹)	MEAN (mg.kg ⁻¹)	SCREENING LEVEL (SL) (mg.kg ⁻¹)	No > SL*
HUMAN HEALTH RISK ASSESSMENT					
Asbestos in soil				Detected	
pH	10	10.8	10.3	5 – 9	10
Arsenic	10	39.0	27.9	640	0
Barium	10	500.0	364.0	22000	0
Cadmium	10	6.5	4.8	190	0
Chromium (III)	10	560.0	327.0	8600	0
Hexavalent Chromium	10	1.8	1.8	33	0
Lead	10	1100.0	535.0	2300	0
Mercury	10	0.3	0.3	1100	0
Nickel	10	160.0	80.4	980	0
Selenium	10	7.0	5.1	12000	0
Vanadium	10	200.0	142.1	9000	0
TPH Aliphatic >EC ₅ - EC ₆	10	0.010	0.010	3200	0
TPH Aliphatic >EC ₆ - EC ₈	10	0.010	0.010	7800	0
TPH Aliphatic >EC ₈ - EC ₁₀	10	0.010	0.010	2000	0
TPH Aliphatic >EC ₁₀ - EC ₁₂	10	1.00	1.00	9700	0
TPH Aliphatic >EC ₁₂ - EC ₁₆	10	5.10	3.04	59000	0
TPH Aliphatic >EC ₁₆ - EC ₂₁	10	39.00	19.30	1600000	0
TPH Aliphatic >EC ₂₁ - EC ₃₅	10	170.00	88.90	1600000	0
TPH Aromatic >EC ₅ - EC ₇	10	0.010	0.010	26000	0
TPH Aromatic >EC ₇ - EC ₈	10	0.010	0.010	56000	0
TPH Aromatic >EC ₈ - EC ₁₀	10	0.020	0.020	3500	0
TPH Aromatic >EC ₁₀ - EC ₁₂	10	1.00	1.00	16000	0
TPH Aromatic >EC ₁₂ - EC ₁₆	10	3.20	2.12	36000	0
TPH Aromatic >EC ₁₆ - EC ₂₁	10	17.00	10.70	28000	0
TPH Aromatic >EC ₂₁ - EC ₃₅	10	65.00	19.30	28000	0
Benzene	10	0.005	0.005	27	0
Toluene	10	0.005	0.005	56000	0
Ethylbenzene	10	0.005	0.005	5700	0
Xylene	10	0.010	0.010	5900	0
Naphthalene	10	2.70	0.42	190	0
Acenaphthylene	10	0.51	0.10	83000	0
Acenaphthene	10	0.91	0.14	84000	0
Fluorene	10	1.40	0.21	63000	0
Phenanthrene	10	3.90	1.05	22000	0

Anthracene	10	0.53	0.21	520000	0
Fluoranthene	10	2.00	1.16	23000	0
Pyrene	10	1.70	0.95	54000	0
Benzo(a)anthracene	10	1.10	0.58	170	0
Chrysene	10	1.20	0.67	350	0
Benzo(b)fluoranthene	10	1.30	0.67	44	0
Benzo(k)fluoranthene	10	0.68	0.31	1200	0
Benzo(a)pyrene	10	0.97	0.47	35	0
Indeno(1,2,3-c,d)pyrene	10	0.58	0.31	500	0
Dibenzo(a,h)anthracene	10	0.16	0.08	3.5	0
Benzo(g,h,i)perylene	10	0.62	0.32	3900	0
Phenol	10	1.0	1.0	440	0
PHYTOTOXICITY RISK ASSESSMENT					
Copper	10	290.0	199.8	200	4
Nickel	10	160.0	80.4	110	1
Zinc	10	1600.0	1161.0	300	10

Elevated pH above the relevant screening level was identified at all 10 sample locations, ranging from 9.5 to 10.8 pH units. Made ground was associated with fragments of concrete, which are caustic in nature and have likely given rise to these alkaline pH values.

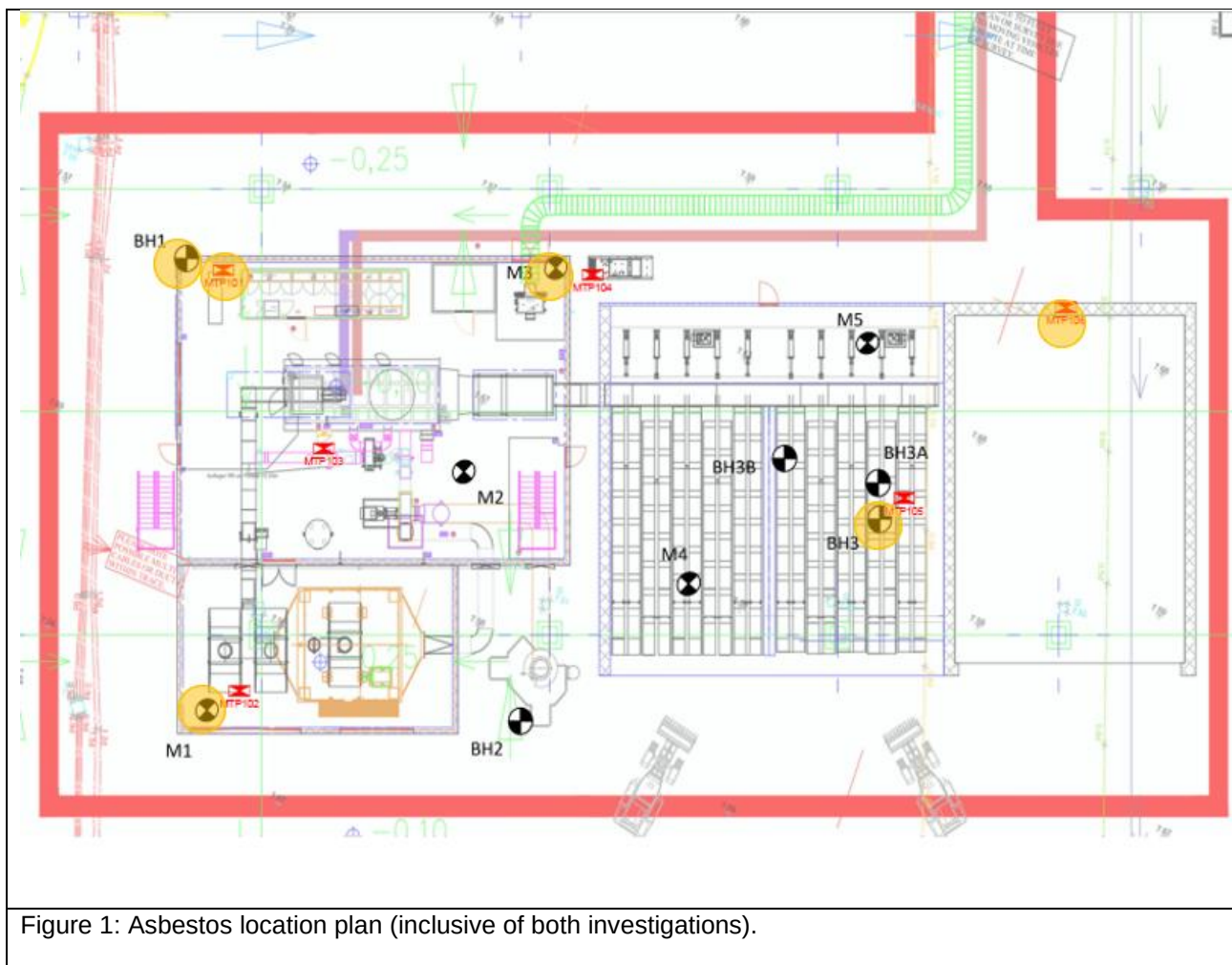
Phytotoxic exceedances (determinands harmful to healthy plant growth) were identified for zinc in all 10 sample locations, for copper in 4 sample locations (MTP102 at 0.4m, MTP104 at 0.3m, MTP105 at 0.3m and MTP106 at 1.5m), and for nickel at MTP106 at 1.5m bgl.

Asbestos is the main contaminant of concern with the results discussed below. A summary table showing the location ID, depths type of asbestos and quantifications are provided below, and full lab certificates can be found appended to this letter.

Table 3: Summary of IDOM positive asbestos results.

Location ID	Depth (m)	ACM Types Detected	PLM Results	Asbestos (%)
MTP101	0.4	Loose Fibres	Chrysotile	<0.001
MTP106	0.4	Loose Fibres	Chrysotile	<0.001

IDOM found asbestos in two samples (MTP101 and MTP106), with asbestos detected at a depth of 0.4 m in both samples which are associated with the MG3 strata. The made ground is described as black ashy and clinker. Figure 1 below highlights all locations where asbestos was identified across both site investigations.



During the site investigation an IDOM Engineer was in attendance and was actively looking to identify any visible pieces of asbestos. There were no suspect pieces of asbestos identified and therefore bulk asbestos identification were scheduled.

The asbestos identified on site was fibre form and ranged from <0.001% and 0.034% (w/w). Asbestos was predominantly identified as chrysotile, and loose fibres with one sample containing amosite.

The asbestos descriptions are indicative of dispersed debris from cement materials. The distribution was generally in the upper made ground albeit the subsurface samples appear to have been taken across different strata. Where identified by IDOM, the asbestos was predominantly identified within MG3 which is an ashy granular backfill.

Risk Assessment

Free asbestos fibres were detected in soil matrices. There is a low potential for fibre levels in air to reach significant levels. In conjunction with the high severity of effects, an overall moderate to high risk from asbestos is identified.

The risk of asbestos fibre levels reaching statutory control limits in outdoor air is very low. A moderate risk from fibre inhalation could exist if impacted soils are transferred to internal spaces become dried out.

Groundworks to be undertaken in accordance with an Asbestos Plan of Works, to be issued separately and which will be incorporated into the Construction Plan.

Generally, health and safety measures will be required to minimise workers' exposure to soil and dust, through use of PPE, dust suppression measures, early placement of clean cover materials to haul roads and parking areas (crushed concrete capping or macadam), use of boot washes.

The presence of fibres may indicate that the asbestos is pervasive and a watching brief should be undertaken to ensure that operatives are not exposed to high risk asbestos containing materials.

Groundworkers and site managers shall maintain vigilance for evidence of contamination which differs significantly from that already found. Where conditions vary significantly the following approach will be taken as shown in Figure 2 below:

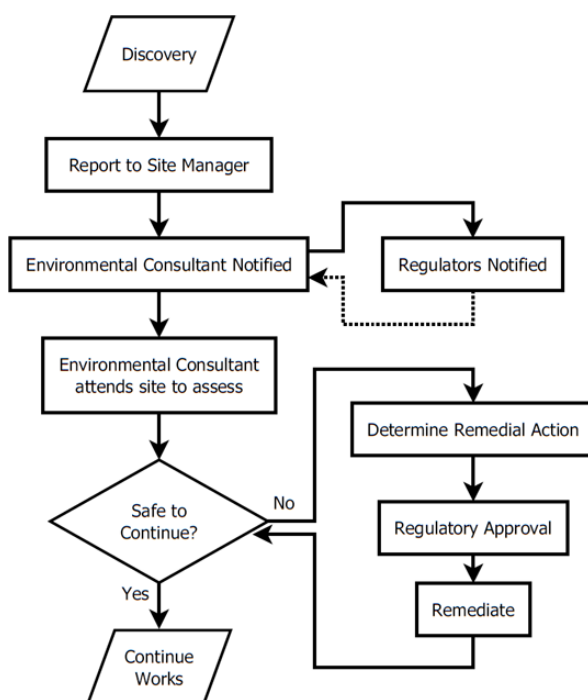


Figure 2. Contamination discovery strategy

To prevent future exposure to made ground it is envisaged that hardstanding will break any pathway and minimising the exposure scenario. The health and safety folder for the development should contain information to the presence of asbestos in soils beneath the site.

Waste Considerations

Using the Environment Agency WM3 assessment procedure, which considers the solid soil chemistry, it is considered that the majority of the samples would class as non-hazardous waste for waste purposes. Two samples are classed as hazardous waste. MTP102 at 0.40 m (carcinogenic due to lead compounds and ecotoxic due to lead compounds and zinc) and MTP105 at 0.30 m bgl (ecotoxic due to zinc). Slag was identified within made ground at both of these sample locations; contamination may be attributable to slag content. The HazWasteOnline report is appended to the end of this report.

If slag / ash material can be feasibly visually identified within excavated made ground material, it is recommended that such material is segregated to reduce disposal costs and reduce the volume of material sent to landfill.

Two samples (MTP101 and MTP106 at 0.4m bgl) contained asbestos fibres of chrysotile at <0.001% w/w. Soils containing asbestos of <0.1% are classed as non-hazardous. It cannot be ruled out at this stage that further asbestos fibres may be present within made ground. The four samples with detections of asbestos from the previous Subsurface investigation were all also <0.1% and would be classed as non-hazardous.

Materials, including waste soils which are not to be retained on site, should be removed and disposed of in accordance with all relevant statutes including the Environmental Protection Act 1990 (as amended), The Controlled Waste Regulations 2012 (as amended), The Waste (England and Wales) Regulations 2011 (as amended), The Hazardous Waste (England and Wales), Regulations 2005 as amended, The Waste Management (England and Wales) Regulations 2006, and The Environmental Permitting (England and Wales) Regulations 2016 (as amended).

It is a requirement of these regulations that waste sent to landfill should have been subject to measures to reduce the amount of waste, reduce harmful or hazardous properties and facilitate recycling. These requirements may be satisfied by measures such as segregation and screening of wastes to recover suitable fill and material for crushing, segregation of inert materials and putrescible wastes.

As a sustainable alternative to off-site disposal, it may be possible to re-use site-won soils provided the following criteria are met:

- i) Use of the material will not create an unacceptable risk of pollution to the environment or harm to human health;
- ii) The material must be chemically and geotechnically suitable without further treatment;
- iii) There must be certainty of use within the scheme; and
- iv) Material should only be used in the quantity necessary for that use.

Provided these criteria are met, the re-use of site-won materials is unlikely to be deemed a waste activity. Production of a Materials Management Plan under the industry CL:AIRE Code of Practice on the Definition of Waste represents a robust method of demonstrating that the proposed re-use of material meets the criteria and is not liable for landfill tax.

Recommendations

Due to the presence of asbestos on the site, IDOM recommends developing an Asbestos Management Plan (AMP) which should be adhered to throughout the construction phase. This plan would outline procedures for managing asbestos-containing materials in the site, with the primary goal of minimising the risk of asbestos exposure to workers and the public.

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IDOM

An AMP will outline the training requirements for operatives working with asbestos containing soils, dampening down procedures, boot wash facilities and a programme of air monitoring. An AMP will also set out the requirements and processes if unforeseen asbestos containing materials are identified, eg cache of asbestos, asbestos insulation board discovered or if the works becomes notifiable and an asbestos licenced contractor may be required.

It is understood that there currently is no Remediation Method Statement for the development site. It is recommended that this letter report together with the existing subsurface ground investigation are utilised to inform the local authority.

It would be prudent to enforce a watching brief, particularly during the initial stages of excavation.

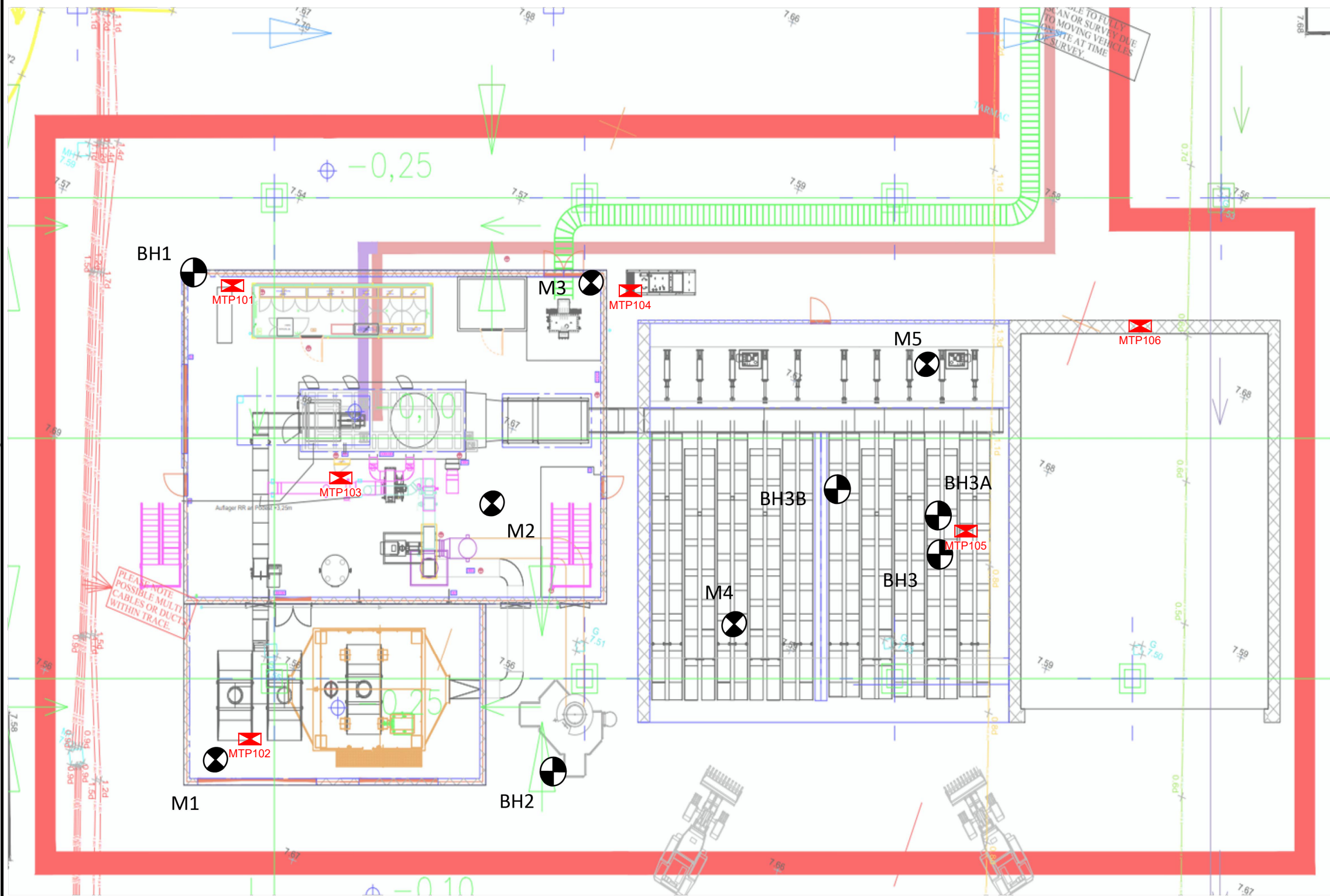
Should you have any further questions please do not hesitate to get in touch.

Yours Sincerely,



Amy Jones
Associate Director

APPENDIX 1 Exploratory Hole Excavation Plan



LEGENDS

 MTPref Merebrook trial pit with location reference

First Issue	25/07/2024	FO	SOJ	SOJ	-
DESCRIPTION	DATE	DWN	CHD	APP'D	REV
ISSUE PURPOSE	PRELIMINARY				
CLIENT	Vital Energi				
PROJECT	Sofidel Swansea				
DWG TITLE	Undertaken Site Investigation Locations Plan				
DWG NO.	22714-304-001				
SCALE	N.T.S	DATE	July 2024	FRAME DIMS (mm) (A3) 420 x 297	
DRAWN	FO	CHECKED	SOJ	APPROVED SOJ	

IDOM

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APPENDIX 2 Exploratory Hole Photographs



Plate 1: Trial Pit MTP101



Plate 2: Trial Pit MTP101



Plate 3: MTP101 Arisings



Plate 4: Trial Pit MTP102



Plate 5: MTP102 Trial Pit



Plate 6: MTP102 Arisings



Plate 7: Trial Pit MTP103



Plate 8: Trial Pit MTP103



Plate 9: Trial Pit MTP104



Plate 10: MTP104 Arisings



Plate 11: Trial Pit MTP105



Plate 12: Trial Pit MTP105



Plate 13: MTP105 Arisings



Plate 14: MTP105 Arisings



Plate 15: Trial Pit MTP106



Plate 16: Trial Pit MTP106



Plate 17: Trial Pit MTP106



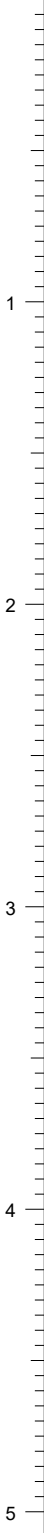
Plate 18: MTP106 Arisings

APPENDIX 3 Trial Pit Logs

IDOM					TRIAL PIT LOG		TrialPit No MTP101 Sheet 1 of 1			
Project Name: Sofidel			Project No. 22714		Co-ords: 273108.00 - 192819.00 Level:		Date 19/07/2024			
Location: Briton Ferry					Dimensions (m): 1.50		Scale 1:25			
Equipment: 3T Rubber Tracked 360 Excavator					Depth 1.70		Logged AH Checked			
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.40	D,J,V		0.20			MADE GROUND: Bituminous macadam.			
				0.30			MADE GROUND: Type 1 stone aggregate sub-layer.			
		0.70		D			0.90	MADE GROUND: Black silty sandy fine to coarse gravel of brick, stone, clinker and slag.		
								Several cobbles		
		1.20		D,J,V			1.30	MADE GROUND: Dark brown slightly gravelly fine to coarse sand with rare plastic and ceramic fragments. Gravel is fine to coarse grained slag.		
	1.70	D,J,V	1.70	Orangish brown fine to coarse grained SAND.						
				End of Pit at 1.700m						
								1		
								2		
								3		
							4			
							5			
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Pit sides unstable		Remarks Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.				

IDOM						TRIAL PIT LOG		TrialPit No MTP102 Sheet 1 of 1	
Project Name: Sofidel				Project No. 22714		Co-ords: 273115.00 - 192795.00 Level:		Date 19/07/2024	
Location: Briton Ferry						Dimensions (m): 1.50		Scale 1:25	
Equipment: 3T Rubber Tracked 360 Excavator						Depth 1.50		Logged AH	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.20			MADE GROUND: Bituminous macadam.		
	0.30	D,J,V		0.30			MADE GROUND: Type 1 stone aggregate sub-layer.		
	0.40	D,J,V					MADE GROUND: Dark brown slightly gravelly fine to coarse sand with rare plastic, glass, ceramic fragments. Gravel is fine to coarse grained slag.		
				0.60			Orangish brown fine to coarse grained SAND.		
	1.50	D,J,V		1.50			End of Pit at 1.500m		
								1	
								2	
								3	
								4	
								5	
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Pit sides unstable				Remarks Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.	

IDOM						TRIAL PIT LOG		TrialPit No MTP103 Sheet 1 of 1		
Project Name: Sofidel				Project No. 22714		Co-ords: 273118.00 - 192816.00 Level:		Date 19/07/2024		
Location: Briton Ferry						Dimensions (m): 1.50 0.60		Scale 1:25		
Equipment: 3T Rubber Tracked 360 Excavator						Depth 1.80		Logged AH		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.20	D		0.20			MADE GROUND: Bituminous macadam.			1
				0.30			MADE GROUND: Type 1 stone aggregate sub-layer.			
	0.40	D,J,V					MADE GROUND: Dark brown slightly gravelly fine to coarse sand with rare plastic, glass, occasional metal rebar. Gravel is fine to coarse grained slag.			
				0.60			MADE GROUND: Light brown reworked slightly gravelly fine to coarse grained sand. Gravel is brick and stone.			
	0.80	D,J,V		1.00			Orangish brown fine to coarse grained SAND.			
	1.60	D,J,V		1.80			End of Pit at 1.800m			2
										3
										4
										5
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Pit sides unstable			Remarks Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.			

IDOM						TRIAL PIT LOG		TrialPit No MTP104 Sheet 1 of 1		
Project Name: Sofidel				Project No. 22714		Co-ords: 273136.00 - 192828.00 Level:		Date 19/07/2024		
Location: Briton Ferry						Dimensions (m): 1.50		Scale 1:25		
Equipment: 3T Rubber Tracked 360 Excavator						Depth 1.70		Logged AH		
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.30	D,J,V		0.20			MADE GROUND: Bituminous macadam.			
				0.30			MADE GROUND: Type 1 stone aggregate sub-layer.			
				0.50			MADE GROUND: Black silty sandy fine to coarse gravel of brick, stone, clinker and slag with occasional glass.			
	0.60	D,J,V		0.80			MADE GROUND: Light brown reworked slightly gravelly fine to coarse grained sand. Gravel is brick and stone.			
	1.00			MADE GROUND: Dark brown gravelly fine to coarse sand. Gravel is fine to coarse grained brick, stone and cobbles of slag.						
1.70	D		1.70			End of Pit at 1.700m				
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Pit sides unstable			Remarks Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.			

IDOM						TRIAL PIT LOG		TrialPit No MTP106 Sheet 1 of 1		
Project Name: Sofidel				Project No. 22714		Co-ords: 273172.00 - 192838.00 Level:		Date 19/07/2024		
Location: Briton Ferry						Dimensions (m): 1.50		Scale 1:25		
Equipment: 3T Rubber Tracked 360 Excavator						Depth 1.50		Logged AH	Checked	
Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
	0.40	D,J,V		0.20			MADE GROUND: Bituminous macadam.			1
				0.30			MADE GROUND: Type 1 stone aggregate sub-layer.			
				0.50			MADE GROUND: Black silty sandy fine to coarse gravel of brick, stone, clinker and slag.			
	0.70	D,J,V		0.80			MADE GROUND: Dark brown gravelly fine to coarse sand. Gravel is fine to coarse grained brick, stone and cobbles of slag.			
							MADE GROUND: Dark brown gravelly fine to coarse sand. Gravel is fine to coarse grained brick, stone and cobbles of slag with decayed wood fragments and rusted metal waste.			
1.20	D,J,V		1.50			End of Pit at 1.500m			2	
1.50	D									3
										4
										5
D = small disturbed sample (tub) J = organic sample (amber glass jar) V = volatile sample (amber glass vial) B = bulk bag sample HSV = hand shear vane (kPa) PP = pocket penetrometer (kg.cm2) PID = photoionisation detector (ppm)				Stability Pit sides unstable			Remarks Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.			

APPENDIX 4 Laboratory Certificates
Soils Statistics Summary

Merebrook
First Floor
1 Leonard Place
Westerham Road
Keston
BR2 6HQ

t: 01689 889980

e: aharris@idom.com
coliveira@idom.com

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

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

Analytical Report Number : 24-031767

Replaces Analytical Report Number: 24-031767, issue no. 1
Additional analysis undertaken.
Soil Suite 1 added to all samples as per client's request.

Project / Site name:	Sofidel	Samples received on:	22/07/2024
Your job number:	22714	Samples instructed on/ Analysis started on:	22/07/2024
Your order number:	24-2-FDO-LABS	Analysis completed by:	02/08/2024
Report Issue Number:	2	Report issued on:	02/08/2024
Samples Analysed:	10 soil samples		

Signed:



Rachel Chappell
Key Account 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

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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: 24-031767

Project / Site name: Sofidel

Your Order No: 24-2-FDO-LABS

Lab Sample Number	262659	262660	262661	262662	262663
Sample Reference	MTP101	MTP101	MTP102	MTP103	MTP104
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.40	0.70	0.40	0.40	0.30
Date Sampled	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	58.9	< 0.1
Moisture Content	%	0.01	NONE	6.5	6.4	7.3	5.5	8.3
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	EWS	EWS	EWS	EWS	EWS
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	-	-	-	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	-	-	-	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	10.3	9.5	10.2	10.3	10.2
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	380	100	350	380	320
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.191	0.0515	0.174	0.192	0.159
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	191	51.5	174	192	159
Organic Matter (automated)	%	0.1	MCERTS	2.3	1.1	2.6	1.9	3.8
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.3	0.6	1.5	1.1	2.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.18	0.12	0.15	0.12	0.22
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.08	< 0.05	0.08	< 0.05	0.1
Phenanthrene	mg/kg	0.05	MCERTS	0.93	0.32	0.82	0.45	0.98
Anthracene	mg/kg	0.05	MCERTS	0.24	< 0.05	0.17	< 0.05	0.26
Fluoranthene	mg/kg	0.05	MCERTS	1.1	0.49	1	0.79	1.5
Pyrene	mg/kg	0.05	MCERTS	0.85	0.47	0.83	0.63	1.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.48	0.27	0.53	0.42	0.71
Chrysene	mg/kg	0.05	MCERTS	0.53	0.37	0.63	0.48	0.83
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.52	0.33	0.63	0.46	0.87
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.28	0.15	< 0.05	0.28	0.41
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.34	0.2	0.42	0.35	0.55
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.23	0.21	0.27	0.23	0.36
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.06	0.16	0.11	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.28	0.19	0.25	0.24	0.36

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	6.07	3.28	5.97	4.46	8.31
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Analytical Report Number: 24-031767

Project / Site name: Sofidel

Your Order No: 24-2-FDO-LABS

Lab Sample Number	262659	262660	262661	262662	262663
Sample Reference	MTP101	MTP101	MTP102	MTP103	MTP104
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.40	0.70	0.40	0.40	0.30
Date Sampled	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	22	32	21	39
Barium (aqua regia extractable)	mg/kg	1	MCERTS	430	150	420	340	390
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	5	4.3	6.5	4.3	4.9
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	320	140	370	460	180
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	320	140	370	460	180
Copper (aqua regia extractable)	mg/kg	1	MCERTS	170	100	290	160	260
Lead (aqua regia extractable)	mg/kg	1	MCERTS	430	300	1100	390	660
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	55	46	100	59	87
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	5.3	3	5.6	7	2.5
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	130	64	190	160	120
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	940	750	1500	920	1300

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	3.4	3.2	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	14	< 8.0	17	15	17
TPHCWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	68	19	72	75	85
TPHCWG - Aliphatic >EC35 - EC40 EH_CU_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10	12	< 10
TPHCWG - Aliphatic >EC5 - EC35 EH_CU+HS_1D_AL	mg/kg	10	NONE	82	19	92	93	100
TPHCWG - Aliphatic >EC5 - EC40 EH_CU+HS_1D_AL	mg/kg	10	NONE	82	19	92	110	100

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	15	< 10	15	11	28
TPHCWG - Aromatic >EC35 - EC40 EH_CU_1D_AR	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	15	< 10	15	11	28
TPHCWG - Aromatic >EC5 - EC40 EH_CU+HS_1D_AR	mg/kg	10	NONE	15	< 10	15	11	28

TPH Total >EC5 - EC40 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	97	19	110	120	130
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VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	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

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

Analytical Report Number: 24-031767

Project / Site name: Sofidel

Your Order No: 24-2-FDO-LABS

Lab Sample Number	262664	262665	262666	262667	262668
Sample Reference	MTP104	MTP105	MTP105	MTP106	MTP106
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	1.00	0.30	0.90	0.40	1.50
Date Sampled	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6	6.5	6.3	9.3	8.9
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	EWS	EWS	EWS	EWS	EWS
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Detected	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	< 0.001	-
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Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	-
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General Inorganics

pH (L099)	pH Units	N/A	MCERTS	10.7	10.5	10.3	10.2	10.8
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	170	1300	290	250	210
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0869	0.667	0.143	0.126	0.104
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	86.9	667	143	126	104
Organic Matter (automated)	%	0.1	MCERTS	1	4.7	2.3	2.5	1.9
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6	2.7	1.3	1.5	1.1

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.14	0.22	0.2	0.18	2.7
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.51
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.91
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.11	0.08	0.07	1.4
Phenanthrene	mg/kg	0.05	MCERTS	0.45	1.1	0.77	0.75	3.9
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.29	0.22	0.19	0.53
Fluoranthene	mg/kg	0.05	MCERTS	0.68	2	1.2	1.1	1.7
Pyrene	mg/kg	0.05	MCERTS	0.53	1.6	0.95	0.82	1.7
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.33	1.1	0.56	0.53	0.83
Chrysene	mg/kg	0.05	MCERTS	0.4	1.2	0.78	0.6	0.9
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.41	1.3	0.73	0.63	0.84
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.15	0.68	0.33	0.35	0.39
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.25	0.97	0.54	0.42	0.64
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.18	0.58	0.31	0.28	0.42
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	< 0.05	0.12
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.19	0.62	0.32	0.28	0.45

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.78	11.7	7.01	6.17	17.9
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Analytical Report Number: 24-031767

Project / Site name: Sofidel

Your Order No: 24-2-FDO-LABS

Lab Sample Number				262664	262665	262666	262667	262668
Sample Reference				MTP104	MTP105	MTP105	MTP106	MTP106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	0.30	0.90	0.40	1.50
Date Sampled				19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	39	26	30	31
Barium (aqua regia extractable)	mg/kg	1	MCERTS	250	470	300	500	390
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.1	5.9	4.6	4	5.7
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	230	330	370	310	560
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	230	330	370	310	560
Copper (aqua regia extractable)	mg/kg	1	MCERTS	98	280	180	200	260
Lead (aqua regia extractable)	mg/kg	1	MCERTS	300	740	400	460	570
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	44	99	75	79	160
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	3.6	6.6	4.4	6.4	6.1
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	87	200	150	150	170
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	1100	1600	1200	1000	1300

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	5.1	2.4	< 2.0	4.3	4
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	20	30	12	21	39
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	84	170	56	90	170
TPHCWG - Aliphatic >EC35 - EC40 _{EH_CU_1D_AL}	mg/kg	10	NONE	< 10	23	< 10	12	10
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	110	200	68	120	220
TPHCWG - Aliphatic >EC5 - EC40 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	110	230	68	130	230

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	3.2
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	17
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	19	< 10	< 10	65
TPHCWG - Aromatic >EC35 - EC40 _{EH_CU_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	19	< 10	< 10	85
TPHCWG - Aromatic >EC5 - EC40 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	19	< 10	< 10	85

TPH Total >EC5 - EC40 _{EH_CU+HS_1D_TOTAL}	mg/kg	10	NONE	110	240	68	130	310
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VOCS

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	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

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



Analytical Report Number: 24-031767
Project / Site name: Sofidel
Your Order No: 24-2-FDO-LABS

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
262659	MTP101	0.40	160	Loose Fibres	Chrysotile	< 0.001	< 0.001
262667	MTP106	0.40	158	Loose Fibres	Chrysotile	< 0.001	< 0.001

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

Analytical Report Number : 24-031767
Project / Site name: Sofidel

* 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 *
262659	MTP101	None Supplied	0.4	Brown sand with gravel
262660	MTP101	None Supplied	0.7	Brown sand with gravel
262661	MTP102	None Supplied	0.4	Brown sand with gravel
262662	MTP103	None Supplied	0.4	Brown sand with gravel and stones
262663	MTP104	None Supplied	0.3	Brown sand with gravel
262664	MTP104	None Supplied	1	Brown sand with gravel
262665	MTP105	None Supplied	0.3	Brown sand with gravel
262666	MTP105	None Supplied	0.9	Brown sand with gravel
262667	MTP106	None Supplied	0.4	Brown sand with gravel
262668	MTP106	None Supplied	1.5	Brown sand with gravel

Analytical Report Number : 24-031767

Project / Site name: Sofidel

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
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazine followed by colorimetry	In-house method	L080	W	MCERTS
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	L080	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099	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 30°C.

Analytical Report Number : 24-031767

Project / Site name: Sofidel

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
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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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Analytical Report Number : 24-031767

Project / Site name: Sofidel

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
MTP106	N/A	S	262668	b	BTEX and/or Volatile organic compounds in soil	L073B	b
MTP106	N/A	S	262668	b	Monohydric phenols in soil	L080	b
MTP106	N/A	S	262668	b	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	b
MTP106	N/A	S	262668	b	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088	b

BASIC STATISTICAL RESULTS SUMMARY



	Site Name	Sofidel														
	Project Number	22714														
	Sample Location	MTP101	MTP101	MTP102	MTP103	MTP104	MTP104	MTP105	MTP105	MTP106	MTP106					
	Depth	0.40	0.70	0.40	0.40	0.30	1.00	0.30	0.90	0.40	1.50					
Determinand												Number of Tests	Maximum (mg.kg ⁻¹)	Mean (mg.kg ⁻¹)	Screening Level (mg.kg ⁻¹)	No. > SL
Arsenic		21	22	32	21	39	18	39	26	30	31	10	39	27.900	640	0
Barium		430	150	420	340	390	250	470	300	500	390	10	500	364.000	22000	0
Cadmium		5	4.3	6.5	4.3	4.9	3.1	5.9	4.6	4	5.7	10	6.5	4.830	190	0
Hexavalent Chromium		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	10	1.8	1.800	33	0
Chromium III		320	140	370	460	180	230	330	370	310	560	10	560	327.000	8600	0
Chromium (total)		320	140	370	460	180	230	330	370	310	560	10	560	327.000	-	-
Copper		170	100	290	160	260	98	280	180	200	260	10	290	199.800	68000	0
Lead		430	300	1100	390	660	300	740	400	460	570	10	1100	535.000	2300	0
Mercury		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	10	0.3	0.300	1100	0
Nickel		55	46	100	59	87	44	99	75	79	160	10	160	80.400	980	0
Selenium		5.3	3	5.6	7	2.5	3.6	6.6	4.4	6.4	6.1	10	7	5.050	12000	0
Vanadium		130	64	190	160	120	87	200	150	150	170	10	200	142.100	9000	0
Zinc		940	750	1500	920	1300	1100	1600	1200	1000	1300	10	1600	1161.000	730000	0
pH		10.3	9.5	10.2	10.3	10.2	10.7	10.5	10.3	10.2	10.8	10	10.8	10.300	9	10
Water Soluble SO4 (BRE SD 2:1 Leach Equivalent) g.l ⁻¹		0.191	0.0515	0.174	0.192	0.159	0.0869	0.667	0.143	0.126	0.104	10	0.667	0.189	-	-
% Organic matter		2.3	1.1	2.6	1.9	3.8	1	4.7	2.3	2.5	1.9	10	4.7	2.410	-	-
% TOC		1.3	0.6	1.5	1.1	2.2	0.6	2.7	1.3	1.5	1.1	10	2.7	1.390	-	-
Aliphatic C5-C6		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10	0.01	0.010	3200	0
Aliphatic C6-C8		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10	0.01	0.010	7800	0
Aliphatic C8-C10		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10	0.01	0.010	2000	0
Aliphatic C10-C12		1	1	1	1	1	1	1	1	1	1	10	1	1.000	9700	0
Aliphatic C12-C16		2	2	3.4	3.2	2	5.1	2.4	2	4.3	4	10	5.1	3.040	59000	0
Aliphatic C16-C21		14	8	17	15	17	20	30	12	21	39	10	39	19.300	1600000	0
Aliphatic C21-C35		68	19	72	75	85	84	170	56	90	170	10	170	88.900	1600000	0
Aliphatic C35-C40		10	10	10	12	10	10	23	10	12	10	10	23	11.700	-	-
Aliphatic C5-C35		82	19	92	93	100	110	200	68	120	220	10	220	110.400	-	-
Aromatic C5-C7		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10	0.01	0.010	26000	0
Aromatic C7-C8		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10	0.01	0.010	56000	0
Aromatic C8-C10		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	0.02	0.020	3500	0
Aromatic C10-C12		1	1	1	1	1	1	1	1	1	1	10	1	1.000	16000	0
Aromatic C12-C16		2	2	2	2	2	2	2	2	2	3.2	10	3.2	2.120	36000	0
Aromatic C16-C21		10	10	10	10	10	10	10	10	10	17	10	17	10.700	28000	0
Aromatic C21-C35		15	10	15	11	28	10	19	10	10	65	10	65	19.300	28000	0
Aromatic C35-C40		10	10	10	10	10	10	10	10	10	10	10	10	10.000	-	-
Aromatic C5-C35		15	10	15	11	28	10	19	10	10	85	10	85	21.300	-	-
TPH Total C5 - C40		97	19	110	120	130	110	240	68	130	310	10	310	133.400	-	-
Benzene		5	5	5	5	5	5	5	5	5	5	-	-	-	-	-
Toluene		5	5	5	5	5	5	5	5	5	5	-	-	-	-	-
Ethylbenzene		5	5	5	5	5	5	5	5	5	5	-	-	-	-	-
p & m-xylene		5	5	5	5	5	5	5	5	5	5	-	-	-	-	-
o-xylene		5	5	5	5	5	5	5	5	5	5	-	-	-	-	-
MTBE		5	5	5	5	5	5	5	5	5	5	-	-	-	-	-
Benzene		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	10	0.005	0.005	27	0
Toluene		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	10	0.005	0.005	56000	0
Ethylbenzene		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	10	0.005	0.005	5700	0
total xylene		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10	0.01	0.010	5900	0
MTBE		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	10	0.005	0.005	-	-
Naphthalene		0.18	0.12	0.15	0.12	0.22	0.14	0.22	0.2	0.18	2.7	10	2.7	0.423	190	0
Acenaphthylene		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.51	10	0.51	0.096	83000	0
Acenaphthene		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.91	10	0.91	0.136	84000	0
Fluorene		0.08	0.05	0.08	0.05	0.1	0.05	0.11	0.08	0.07	1.4	10	1.4	0.207	63000	0
Phenanthrene		0.93	0.32	0.82	0.45	0.98	0.45	1.1	0.77	0.75	3.9	10	3.9	1.047	22000	0
Anthracene		0.24	0.05	0.17	0.05	0.26	0.05	0.29	0.22	0.19	0.53	10	0.53	0.205	520000	0
Fluoranthene		1.1	0.49	1	0.79	1.5	0.68	2	1.2	1.1	1.7	10	2	1.156	23000	0
Pyrene		0.85	0.47	0.83	0.63	1.1	0.53	1.6	0.95	0.82	1.7	10	1.7	0.948	54000	0
Benzo(a)anthracene		0.48	0.27	0.53	0.42	0.71	0.33	1.1	0.56	0.53	0.83	10	1.1	0.576	170	0
Chrysene		0.53	0.37	0.63	0.48	0.83	0.4	1.2	0.78	0.6	0.9	10	1.2	0.672	350	0
Benzo(b)fluoranthene		0.52	0.33	0.63	0.46	0.87	0.41	1.3	0.73	0.63	0.84	10	1.3	0.672	44	0
Benzo(k)fluoranthene		0.28	0.15	0.05	0.28	0.41	0.15	0.68	0.33	0.35	0.39	10	0.68	0.307	1200	0
Benzo(a)pyrene		0.34	0.2	0.42	0.35	0.55	0.25	0.97	0.54	0.42	0.64	10	0.97	0.468	35	0
Indeno(1,2,3-c,d)pyrene		0.23	0.21	0.27	0.23	0.36	0.18	0.58	0.31	0.28	0.42	10	0.58	0.307	500	0
Dibenzo(a,h)anthracene		0.06	0.16	0.11	0.05	0.05	0.06	0.05	0.05	0.05	0.12	10	0.16	0.076	3.5	0
Benzo(g,h,i)perylene		0.28	0.19	0.25	0.24	0.36	0.19	0.62	0.32	0.28	0.45	10	0.62	0.318	3900	0
Total PAH - USEPA 16		6.07	3.28	5.97	4.46	8.31	3.78	11.7	7.01	6.17	17.9	10	17.9	7.465	-	-
Phenol - Monohydric		< 1.	< 1.	< 1.	< 1.	< 1.	< 1.	< 1.	< 1.	< 1.	< 1.	10	1	1.000	440	0

APPENDIX 5 HazWasteOnline Report

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)



9CKKW-MH8NZ-QSUU2

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

Job name

Sofidel

Description/Comments

industrial and ground possibly impacted by steelworks. Site is also a paperworks. Possible contam includes:

- Sand contaminated by tars and liquors – phenols, sulfide, tar oils, iron sulphide
- Tar/coke grit mixtures
- Settled solids from distillation of ammoniacal liquor
- Slag and iron oxide/coke residue dust used as site backfill
- Paper mill plant buildings and infrastructure are possibly insulated with asbestos lagging and asbestos cement sheeting was used in roofing or cladding
- May be contam by PCBs where transformers/capacitors have been de-commissioned. A transformer site is adjacent to the site investigation area
- Use of chlorine for bleaching of pump produces chlorinated organic compounds

Idom Merebrook investigation
i2 lab certificate 24-031767-2

Project

22714

Site

Sofidel

Classified by

Name: **Linford Shacklady**
Date: **12 Aug 2024 11:32 GMT**
Telephone: **01773829988**
Company: **Idom Merebrook Ltd**
Cromford Mills
Mill Lane
Matlock
DE4 3RQ

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:**CERTIFIED****Course**

Hazardous Waste Classification

Date

04 Aug 2022

Next 3 year Refresher due by Aug 2025

Purpose of classification

2 - Material Characterisation

Address of the waste

Sofidel UK, Brunel Way, Baglan Energy Park, Briton Ferry

Post Code SA11 2HZ

SIC for the process giving rise to the waste

41201 Construction of commercial buildings

Description of industry/producer giving rise to the waste

redevelopment of former industrial site

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

Construction of a new biomass energy site

Description of the waste

Waste will be created during cut / fill, during excavation for roads, drainage and foundations

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	MTP101	0.40	Non Hazardous		3
2	MTP101[2]	0.70	Non Hazardous		6
3	MTP102	0.40	Hazardous	HP 7, HP 14	9
4	MTP103	0.40	Non Hazardous		12
5	MTP104	0.30	Non Hazardous		15
6	MTP104[2]	1.00	Non Hazardous		18
7	MTP105	0.30	Hazardous	HP 14	21
8	MTP105[2]	0.90	Non Hazardous		24
9	MTP106	0.40	Non Hazardous		27
10	MTP106[2]	1.50	Non Hazardous		30

Related documents

#	Name	Description
1	Merebrook 2024 - worst case species adjusted to most common	waste stream template used to create this Job

Report

Created by: Linford Shacklady

Created date: 12 Aug 2024 11:32 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	33
Appendix B: Rationale for selection of metal species	34
Appendix C: Version	35

Classification of sample: MTP101

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

Sample details

Sample name:	LoW Code:
MTP101	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
6.5%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 6.5% Wet Weight 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	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 %		<0.001 %	<0.001 %		<LOD
2	pH				10.3 pH		10.3 pH	10.3 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.18 mg/kg		0.168 mg/kg	0.0000168 %	✓	
4	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	fluorene 201-695-5	86-73-7			0.08 mg/kg		0.0748 mg/kg	0.00000748 %	✓	
7	phenanthrene 201-581-5	85-01-8			0.93 mg/kg		0.87 mg/kg	0.000087 %	✓	
8	anthracene 204-371-1	120-12-7			0.24 mg/kg		0.224 mg/kg	0.0000224 %	✓	
9	fluoranthene 205-912-4	206-44-0			1.1 mg/kg		1.029 mg/kg	0.000103 %	✓	
10	pyrene 204-927-3	129-00-0			0.85 mg/kg		0.795 mg/kg	0.0000795 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.48 mg/kg		0.449 mg/kg	0.0000449 %	✓	
12	chrysene 601-048-00-0	205-923-4	218-01-9		0.53 mg/kg		0.496 mg/kg	0.0000496 %	✓	
13	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.52 mg/kg		0.486 mg/kg	0.0000486 %	✓	
14	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.28 mg/kg		0.262 mg/kg	0.0000262 %	✓	

#		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		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3200-028-550-32-8				0.34	mg/kg		0.318	mg/kg	0.0000318 %	✓	
16	■	indeno[123-cd]pyrene 205-893-2193-39-5				0.23	mg/kg		0.215	mg/kg	0.0000215 %	✓	
17		dibenz[a,h]anthracene 601-041-00-2200-181-853-70-3				0.06	mg/kg		0.0561	mg/kg	0.00000561 %	✓	
18	■	benzo[ghi]perylene 205-883-8191-24-2				0.28	mg/kg		0.262	mg/kg	0.0000262 %	✓	
19		arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex } 033-002-00-5			1	21	mg/kg		19.635	mg/kg	0.00196 %	✓	
20	■	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex } 056-002-00-7			1	430	mg/kg		402.05	mg/kg	0.0402 %	✓	
21		cadmium { cadmium oxide } 048-002-00-0215-146-21306-19-0				5	mg/kg	1.142	5.34	mg/kg	0.000534 %	✓	
22	■	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<LOD
23		chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-91308-38-9				320	mg/kg	1.462	437.297	mg/kg	0.0437 %	✓	
24	■	copper { dicopper oxide; copper (I) oxide } 029-002-00-X215-270-71317-39-1				170	mg/kg	1.126	178.96	mg/kg	0.0179 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6			1	430	mg/kg		402.05	mg/kg	0.0402 %	✓	
26	■	mercury { mercury(II) sulfide } 215-696-31344-48-5				<0.3	mg/kg	1.16	<0.348	mg/kg	<0.0000348 %		<LOD
27		nickel { nickel(II) oxide (nickel monoxide) } 028-003-00-2215-215-7 [1] 1313-99-1 [1] 234-323-5 [2] - [3] 11099-02-8 [2] 34492-97-2 [3]				55	mg/kg	1.273	65.443	mg/kg	0.00654 %	✓	
28	■	selenium { nickel selenate } 028-031-00-5239-125-215060-62-5				5.3	mg/kg	2.554	12.656	mg/kg	0.00127 %	✓	
29		vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8215-239-81314-62-1				130	mg/kg	1.785	216.989	mg/kg	0.0217 %	✓	
30	■	zinc { trizinc bis(orthophosphate) } 030-011-00-6231-944-37779-90-0				940	mg/kg	1.968	1730.023	mg/kg	0.173 %	✓	
31		benzene 601-020-00-8200-753-771-43-2				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
32	■	toluene 601-021-00-3203-625-9108-88-3				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
33		ethylbenzene 601-023-00-4202-849-4100-41-4				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
34	■	xylene 601-022-00-9202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
35		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X216-653-11634-04-4				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
36		TPH (C6 to C40) petroleum group TPH				97	mg/kg		90.695	mg/kg	0.00907 %	✓	
37		confirm TPH has NOT arisen from diesel or petrol				☑							

#	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							
38	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.358 %		

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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00907%)

Classification of sample: MTP101[2]

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

Sample details

Sample name:	LoW Code:
MTP101[2]	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)
0.70 m	
Moisture content:	
6.4%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 6.4% Wet Weight 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	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		<		<	<		ND
2	pH				9.5 pH		9.5 pH	9.5 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.12 mg/kg		0.112 mg/kg	0.0000112 %	✓	
4	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	phenanthrene 201-581-5	85-01-8			0.32 mg/kg		0.3 mg/kg	0.00003 %	✓	
8	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	fluoranthene 205-912-4	206-44-0			0.49 mg/kg		0.459 mg/kg	0.0000459 %	✓	
10	pyrene 204-927-3	129-00-0			0.47 mg/kg		0.44 mg/kg	0.000044 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.27 mg/kg		0.253 mg/kg	0.0000253 %	✓	
12	chrysene 601-048-00-0	205-923-4	218-01-9		0.37 mg/kg		0.346 mg/kg	0.0000346 %	✓	
13	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.33 mg/kg		0.309 mg/kg	0.0000309 %	✓	
14	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.15 mg/kg		0.14 mg/kg	0.000014 %	✓	

#	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	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.2 mg/kg		0.187 mg/kg	0.0000187 %	✓	
16	indeno[123-cd]pyrene 205-893-2	193-39-5			0.21 mg/kg		0.197 mg/kg	0.0000197 %	✓	
17	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.16 mg/kg		0.15 mg/kg	0.000015 %	✓	
18	benzo[ghi]perylene 205-883-8	191-24-2			0.19 mg/kg		0.178 mg/kg	0.0000178 %	✓	
19	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex } 033-002-00-5			1	22 mg/kg		20.592 mg/kg	0.00206 %	✓	
20	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex } 056-002-00-7			1	150 mg/kg		140.4 mg/kg	0.014 %	✓	
21	cadmium { cadmium oxide } 048-002-00-0	215-146-2	1306-19-0		4.3 mg/kg	1.142	4.598 mg/kg	0.00046 %	✓	
22	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
23	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9	1308-38-9			140 mg/kg	1.462	191.522 mg/kg	0.0192 %	✓	
24	copper { dicopper oxide; copper (I) oxide } 029-002-00-X	215-270-7	1317-39-1		100 mg/kg	1.126	105.383 mg/kg	0.0105 %	✓	
25	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6			1	300 mg/kg		280.8 mg/kg	0.0281 %	✓	
26	mercury { mercury(II) sulfide } 215-696-3	1344-48-5			<0.3 mg/kg	1.16	<0.348 mg/kg	<0.0000348 %		<LOD
27	nickel { nickel(II) oxide (nickel monoxide) } 028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		46 mg/kg	1.273	54.793 mg/kg	0.00548 %	✓	
28	selenium { nickel selenate } 028-031-00-5	239-125-2	15060-62-5		3 mg/kg	2.554	7.171 mg/kg	0.000717 %	✓	
29	vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8	215-239-8	1314-62-1		64 mg/kg	1.785	106.94 mg/kg	0.0107 %	✓	
30	zinc { trizinc bis(orthophosphate) } 030-011-00-6	231-944-3	7779-90-0		750 mg/kg	1.968	1381.814 mg/kg	0.138 %	✓	
31	benzene 601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	toluene 601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	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]		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
36	TPH (C6 to C40) petroleum group TPH				19 mg/kg		17.784 mg/kg	0.00178 %	✓	
37	confirm TPH has NOT arisen from diesel or petrol				☑					

#	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							
38	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.232 %		

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
ND	Not detected
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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00178%)

Classification of sample: MTP102

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:	
MTP102	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.40 m		
Moisture content:		
7.3%		
(wet weight correction)		

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.102%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.102%)

trizinc bis(orthophosphate): (compound conc.: 0.274%)

Determinands

Moisture content: 7.3% Wet Weight 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	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		<		<	<		ND
2	pH		PH		10.2 pH		10.2 pH	10.2 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.15 mg/kg		0.139 mg/kg	0.0000139 %	✓	
4	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	acenaphthene 201-469-6	83-32-9			0.05 mg/kg		0.0464 mg/kg	0.00000464 %	✓	
6	fluorene 201-695-5	86-73-7			0.08 mg/kg		0.0742 mg/kg	0.00000742 %	✓	
7	phenanthrene 201-581-5	85-01-8			0.82 mg/kg		0.76 mg/kg	0.000076 %	✓	

#	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							
8	anthracene	204-371-1	120-12-7		0.17 mg/kg		0.158 mg/kg	0.0000158 %	✓	
9	fluoranthene	205-912-4	206-44-0		1 mg/kg		0.927 mg/kg	0.0000927 %	✓	
10	pyrene	204-927-3	129-00-0		0.83 mg/kg		0.769 mg/kg	0.0000769 %	✓	
11	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.53 mg/kg		0.491 mg/kg	0.0000491 %	✓	
12	chrysene	601-048-00-0	205-923-4	218-01-9	0.63 mg/kg		0.584 mg/kg	0.0000584 %	✓	
13	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.63 mg/kg		0.584 mg/kg	0.0000584 %	✓	
14	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.42 mg/kg		0.389 mg/kg	0.0000389 %	✓	
16	indeno[123-cd]pyrene	205-893-2	193-39-5		0.27 mg/kg		0.25 mg/kg	0.000025 %	✓	
17	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.11 mg/kg		0.102 mg/kg	0.0000102 %	✓	
18	benzo[ghi]perylene	205-883-8	191-24-2		0.25 mg/kg		0.232 mg/kg	0.0000232 %	✓	
19	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }	033-002-00-5			32 mg/kg		29.664 mg/kg	0.00297 %	✓	
20	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex }	056-002-00-7			420 mg/kg		389.34 mg/kg	0.0389 %	✓	
21	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	6.5 mg/kg	1.142	6.883 mg/kg	0.000688 %	✓	
22	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
23	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		370 mg/kg	1.462	501.299 mg/kg	0.0501 %	✓	
24	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	290 mg/kg	1.126	302.673 mg/kg	0.0303 %	✓	
25	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1100 mg/kg		1019.7 mg/kg	0.102 %	✓	
26	mercury { mercury(II) sulfide }	215-696-3	1344-48-5		<0.3 mg/kg	1.16	<0.348 mg/kg	<0.0000348 %		<LOD
27	nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]	100 mg/kg	1.273	117.969 mg/kg	0.0118 %	✓	
28	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	5.6 mg/kg	2.554	13.257 mg/kg	0.00133 %	✓	
29	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	190 mg/kg	1.785	314.425 mg/kg	0.0314 %	✓	
30	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	1500 mg/kg	1.968	2737.055 mg/kg	0.274 %	✓	
31	benzene	601-020-00-8	200-753-7	71-43-2	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#	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							
32	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
33	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
34	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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]							
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
36	TPH (C6 to C40) petroleum group				110 mg/kg		101.97 mg/kg	0.0102 %	✓	
			TPH							
37	confirm TPH has NOT arisen from diesel or petrol				☒					
38	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
Total:								0.555 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	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
ND	Not detected
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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0102%)

Classification of sample: MTP103



Non Hazardous Waste

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

Sample details

Sample name:	LoW Code:
MTP103	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.5%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.5% Wet Weight 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	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		<		<	<		ND
2	pH		PH		10.3 pH		10.3 pH	10.3 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.12 mg/kg		0.113 mg/kg	0.0000113 %	✓	
4	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	phenanthrene 201-581-5	85-01-8			0.45 mg/kg		0.425 mg/kg	0.0000425 %	✓	
8	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	fluoranthene 205-912-4	206-44-0			0.79 mg/kg		0.747 mg/kg	0.0000747 %	✓	
10	pyrene 204-927-3	129-00-0			0.63 mg/kg		0.595 mg/kg	0.0000595 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.42 mg/kg		0.397 mg/kg	0.0000397 %	✓	
12	chrysene 601-048-00-0	205-923-4	218-01-9		0.48 mg/kg		0.454 mg/kg	0.0000454 %	✓	
13	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.46 mg/kg		0.435 mg/kg	0.0000435 %	✓	
14	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.28 mg/kg		0.265 mg/kg	0.0000265 %	✓	

#	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	benzo[a]pyrene; benzo[def]chrysene				0.35 mg/kg		0.331 mg/kg	0.0000331 %	✓	
	601-032-00-3	200-028-5	50-32-8							
16	indeno[123-cd]pyrene				0.23 mg/kg		0.217 mg/kg	0.0000217 %	✓	
		205-893-2	193-39-5							
17	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							
18	benzo[ghi]perylene				0.24 mg/kg		0.227 mg/kg	0.0000227 %	✓	
		205-883-8	191-24-2							
19	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	21 mg/kg		19.845 mg/kg	0.00198 %	✓	
	033-002-00-5									
20	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex }			1	340 mg/kg		321.3 mg/kg	0.0321 %	✓	
	056-002-00-7									
21	cadmium { cadmium oxide }				4.3 mg/kg	1.142	4.642 mg/kg	0.000464 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
22	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
23	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				460 mg/kg	1.462	635.338 mg/kg	0.0635 %	✓	
		215-160-9	1308-38-9							
24	copper { dicopper oxide; copper (I) oxide }				160 mg/kg	1.126	170.234 mg/kg	0.017 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
25	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	390 mg/kg		368.55 mg/kg	0.0369 %	✓	
	082-001-00-6									
26	mercury { mercury(II) sulfide }				<0.3 mg/kg	1.16	<0.348 mg/kg	<0.0000348 %		<LOD
		215-696-3	1344-48-5							
27	nickel { nickel(II) oxide (nickel monoxide) }				59 mg/kg	1.273	70.953 mg/kg	0.0071 %	✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]							
28	selenium { nickel selenate }				7 mg/kg	2.554	16.894 mg/kg	0.00169 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
29	vanadium { divanadium pentaoxide; vanadium pentoxide }				160 mg/kg	1.785	269.92 mg/kg	0.027 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
30	zinc { trizinc bis(orthophosphate) }				920 mg/kg	1.968	1711.324 mg/kg	0.171 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
31	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
32	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
33	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
34	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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]							
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
36	TPH (C6 to C40) petroleum group				120 mg/kg		113.4 mg/kg	0.0113 %	✓	
			TPH							
37	confirm TPH has NOT arisen from diesel or petrol				☒					

#	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							
38	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.371 %		

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
ND	Not detected
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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0113%)

Classification of sample: MTP104

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

Sample details

Sample name:	LoW Code:
MTP104	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.3%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.3% Wet Weight 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	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		<		<	<		ND
2	pH				10.2 pH		10.2 pH	10.2 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.22 mg/kg		0.202 mg/kg	0.0000202 %	✓	
4	acenaphthylene 205-917-1	208-96-8			0.05 mg/kg		0.0459 mg/kg	0.00000458 %	✓	
5	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	fluorene 201-695-5	86-73-7			0.1 mg/kg		0.0917 mg/kg	0.00000917 %	✓	
7	phenanthrene 201-581-5	85-01-8			0.98 mg/kg		0.899 mg/kg	0.0000899 %	✓	
8	anthracene 204-371-1	120-12-7			0.26 mg/kg		0.238 mg/kg	0.0000238 %	✓	
9	fluoranthene 205-912-4	206-44-0			1.5 mg/kg		1.376 mg/kg	0.000138 %	✓	
10	pyrene 204-927-3	129-00-0			1.1 mg/kg		1.009 mg/kg	0.000101 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.71 mg/kg		0.651 mg/kg	0.0000651 %	✓	
12	chrysene 601-048-00-0	205-923-4	218-01-9		0.83 mg/kg		0.761 mg/kg	0.0000761 %	✓	
13	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.87 mg/kg		0.798 mg/kg	0.0000798 %	✓	
14	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.41 mg/kg		0.376 mg/kg	0.0000376 %	✓	

#		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		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3200-028-550-32-8				0.55	mg/kg		0.504	mg/kg	0.0000504 %	✓	
16	■	indeno[123-cd]pyrene 205-893-2193-39-5				0.36	mg/kg		0.33	mg/kg	0.000033 %	✓	
17		dibenz[a,h]anthracene 601-041-00-2200-181-853-70-3				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18	■	benzo[ghi]perylene 205-883-8191-24-2				0.36	mg/kg		0.33	mg/kg	0.000033 %	✓	
19	🧪	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex } 033-002-00-5			1	39	mg/kg		35.763	mg/kg	0.00358 %	✓	
20	🧪	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex } 056-002-00-7			1	390	mg/kg		357.63	mg/kg	0.0358 %	✓	
21	🧪	cadmium { cadmium oxide } 048-002-00-0215-146-21306-19-0				4.9	mg/kg	1.142	5.133	mg/kg	0.000513 %	✓	
22	🧪	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<LOD
23	🧪	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-91308-38-9				180	mg/kg	1.462	241.244	mg/kg	0.0241 %	✓	
24	🧪	copper { dicopper oxide; copper (I) oxide } 029-002-00-X215-270-71317-39-1				260	mg/kg	1.126	268.434	mg/kg	0.0268 %	✓	
25	🧪	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6			1	660	mg/kg		605.22	mg/kg	0.0605 %	✓	
26	🧪	mercury { mercury(II) sulfide } 215-696-31344-48-5				<0.3	mg/kg	1.16	<0.348	mg/kg	<0.0000348 %		<LOD
27	🧪	nickel { nickel(II) oxide (nickel monoxide) } 028-003-00-2215-215-7 [1] 1313-99-1 [1] 234-323-5 [2] - [3] 11099-02-8 [2] 34492-97-2 [3]				87	mg/kg	1.273	101.526	mg/kg	0.0102 %	✓	
28	🧪	selenium { nickel selenate } 028-031-00-5239-125-215060-62-5				2.5	mg/kg	2.554	5.855	mg/kg	0.000585 %	✓	
29	🧪	vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8215-239-81314-62-1				120	mg/kg	1.785	196.442	mg/kg	0.0196 %	✓	
30	🧪	zinc { trizinc bis(orthophosphate) } 030-011-00-6231-944-37779-90-0				1300	mg/kg	1.968	2346.525	mg/kg	0.235 %	✓	
31		benzene 601-020-00-8200-753-771-43-2				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
32		toluene 601-021-00-3203-625-9108-88-3				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
33	■	ethylbenzene 601-023-00-4202-849-4100-41-4				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
34		xylene 601-022-00-9202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
35		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X216-653-11634-04-4				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
36	■	TPH (C6 to C40) petroleum group TPH				130	mg/kg		119.21	mg/kg	0.0119 %	✓	
37	■	confirm TPH has NOT arisen from diesel or petrol				☑							

#	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							
38	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.43 %		

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
ND	Not detected
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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0119%)

Classification of sample: MTP104[2]



Non Hazardous Waste

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

Sample details

Sample name:	LoW Code:
MTP104[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
6%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 6% Wet Weight 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	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		<		<	<		ND
2	pH		PH		10.7 pH		10.7 pH	10.7 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.14 mg/kg		0.132 mg/kg	0.0000132 %	✓	
4	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	phenanthrene 201-581-5	85-01-8			0.45 mg/kg		0.423 mg/kg	0.0000423 %	✓	
8	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	fluoranthene 205-912-4	206-44-0			0.68 mg/kg		0.639 mg/kg	0.0000639 %	✓	
10	pyrene 204-927-3	129-00-0			0.53 mg/kg		0.498 mg/kg	0.0000498 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.33 mg/kg		0.31 mg/kg	0.000031 %	✓	
12	chrysene 601-048-00-0	205-923-4	218-01-9		0.4 mg/kg		0.376 mg/kg	0.0000376 %	✓	
13	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.41 mg/kg		0.385 mg/kg	0.0000385 %	✓	
14	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.15 mg/kg		0.141 mg/kg	0.0000141 %	✓	

#	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	benzo[a]pyrene; benzo[def]chrysene				0.25 mg/kg		0.235 mg/kg	0.0000235 %	✓	
	601-032-00-3	200-028-5	50-32-8							
16	indeno[123-cd]pyrene				0.18 mg/kg		0.169 mg/kg	0.0000169 %	✓	
		205-893-2	193-39-5							
17	dibenz[a,h]anthracene				0.06 mg/kg		0.0564 mg/kg	0.00000564 %	✓	
	601-041-00-2	200-181-8	53-70-3							
18	benzo[ghi]perylene				0.19 mg/kg		0.179 mg/kg	0.0000179 %	✓	
		205-883-8	191-24-2							
19	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	18 mg/kg		16.92 mg/kg	0.00169 %	✓	
	033-002-00-5									
20	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex }			1	250 mg/kg		235 mg/kg	0.0235 %	✓	
	056-002-00-7									
21	cadmium { cadmium oxide }				3.1 mg/kg	1.142	3.329 mg/kg	0.000333 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
22	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
23	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				230 mg/kg	1.462	315.988 mg/kg	0.0316 %	✓	
		215-160-9	1308-38-9							
24	copper { dicopper oxide; copper (I) oxide }				98 mg/kg	1.126	103.717 mg/kg	0.0104 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
25	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	300 mg/kg		282 mg/kg	0.0282 %	✓	
	082-001-00-6									
26	mercury { mercury(II) sulfide }				<0.3 mg/kg	1.16	<0.348 mg/kg	<0.0000348 %		<LOD
		215-696-3	1344-48-5							
27	nickel { nickel(II) oxide (nickel monoxide) }				44 mg/kg	1.273	52.634 mg/kg	0.00526 %	✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]							
28	selenium { nickel selenate }				3.6 mg/kg	2.554	8.642 mg/kg	0.000864 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
29	vanadium { divanadium pentaoxide; vanadium pentoxide }				87 mg/kg	1.785	145.992 mg/kg	0.0146 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
30	zinc { trizinc bis(orthophosphate) }				1100 mg/kg	1.968	2035.322 mg/kg	0.204 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
31	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
32	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
33	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
34	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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]							
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
36	TPH (C6 to C40) petroleum group				110 mg/kg		103.4 mg/kg	0.0103 %	✓	
			TPH							
37	confirm TPH has NOT arisen from diesel or petrol				☒					

#	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							
38	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.331 %		

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
ND	Not detected
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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

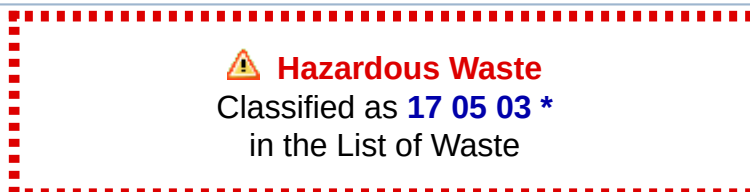
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0103%)

Classification of sample: MTP105



Sample details

Sample name:	LoW Code:
MTP105	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
6.5%	
(wet weight correction)	

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinand:

trizinc bis(orthophosphate): (compound conc.: 0.294%)

Determinands

Moisture content: 6.5% Wet Weight 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	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		<		<	<		ND
2	pH		PH		10.5 pH		10.5 pH	10.5 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.22 mg/kg		0.206 mg/kg	0.0000206 %	✓	
4	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	fluorene 201-695-5	86-73-7			0.11 mg/kg		0.103 mg/kg	0.0000103 %	✓	
7	phenanthrene 201-581-5	85-01-8			1.1 mg/kg		1.029 mg/kg	0.000103 %	✓	
8	anthracene 204-371-1	120-12-7			0.29 mg/kg		0.271 mg/kg	0.0000271 %	✓	
9	fluoranthene 205-912-4	206-44-0			2 mg/kg		1.87 mg/kg	0.000187 %	✓	
10	pyrene 204-927-3	129-00-0			1.6 mg/kg		1.496 mg/kg	0.00015 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.1 mg/kg		1.029 mg/kg	0.000103 %	✓	

#		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							
12		chrysene				1.2 mg/kg		1.122 mg/kg	0.000112 %	✓	
		601-048-00-0	205-923-4	218-01-9							
13		benzo[b]fluoranthene				1.3 mg/kg		1.216 mg/kg	0.000122 %	✓	
		601-034-00-4	205-911-9	205-99-2							
14		benzo[k]fluoranthene				0.68 mg/kg		0.636 mg/kg	0.0000636 %	✓	
		601-036-00-5	205-916-6	207-08-9							
15		benzo[a]pyrene; benzo[def]chrysene				0.97 mg/kg		0.907 mg/kg	0.0000907 %	✓	
		601-032-00-3	200-028-5	50-32-8							
16	■	indeno[123-cd]pyrene				0.58 mg/kg		0.542 mg/kg	0.0000542 %	✓	
			205-893-2	193-39-5							
17		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							
18	■	benzo[ghi]perylene				0.62 mg/kg		0.58 mg/kg	0.000058 %	✓	
			205-883-8	191-24-2							
19	🧪	arsenic { ■ arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	39 mg/kg		36.465 mg/kg	0.00365 %	✓	
		033-002-00-5									
20	🧪	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex }			1	470 mg/kg		439.45 mg/kg	0.0439 %	✓	
		056-002-00-7									
21	🧪	cadmium { cadmium oxide }				5.9 mg/kg	1.142	6.302 mg/kg	0.00063 %	✓	
		048-002-00-0	215-146-2	1306-19-0							
22	🧪	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
		024-017-00-8									
23	🧪	chromium in chromium(III) compounds { ■ chromium(III) oxide (worst case) }				330 mg/kg	1.462	450.963 mg/kg	0.0451 %	✓	
			215-160-9	1308-38-9							
24	🧪	copper { dicopper oxide; copper (I) oxide }				280 mg/kg	1.126	294.758 mg/kg	0.0295 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
25	🧪	lead { ■ lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	740 mg/kg		691.9 mg/kg	0.0692 %	✓	
		082-001-00-6									
26	🧪	mercury { ■ mercury(II) sulfide }				<0.3 mg/kg	1.16	<0.348 mg/kg	<0.0000348 %		<LOD
			215-696-3	1344-48-5							
27	🧪	nickel { nickel(II) oxide (nickel monoxide) }				99 mg/kg	1.273	117.798 mg/kg	0.0118 %	✓	
		028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]							
28	🧪	selenium { nickel selenate }				6.6 mg/kg	2.554	15.76 mg/kg	0.00158 %	✓	
		028-031-00-5	239-125-2	15060-62-5							
29	🧪	vanadium { divanadium pentaoxide; vanadium pentoxide }				200 mg/kg	1.785	333.83 mg/kg	0.0334 %	✓	
		023-001-00-8	215-239-8	1314-62-1							
30	🧪	zinc { trizinc bis(orthophosphate) }				1600 mg/kg	1.968	2944.72 mg/kg	0.294 %	✓	
		030-011-00-6	231-944-3	7779-90-0							
31		benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
32		toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3							
33	■	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		601-023-00-4	202-849-4	100-41-4							
34		xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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]							

#	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							
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
36	TPH (C6 to C40) petroleum group				240 mg/kg		224.4 mg/kg	0.0224 %	✓	
			TPH							
37	confirm TPH has NOT arisen from diesel or petrol				☒					
38	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
Total:								0.557 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	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
ND	Not detected
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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0224%)

Classification of sample: MTP105[2]



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

Sample details

Sample name:	LoW Code:
MTP105[2]	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)
6.3%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 6.3% Wet Weight 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	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		<		<	<		ND
2	pH				10.3 pH		10.3 pH	10.3 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.2 mg/kg		0.187 mg/kg	0.0000187 %	✓	
4	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	fluorene 201-695-5	86-73-7			0.08 mg/kg		0.075 mg/kg	0.0000075 %	✓	
7	phenanthrene 201-581-5	85-01-8			0.77 mg/kg		0.721 mg/kg	0.0000721 %	✓	
8	anthracene 204-371-1	120-12-7			0.22 mg/kg		0.206 mg/kg	0.0000206 %	✓	
9	fluoranthene 205-912-4	206-44-0			1.2 mg/kg		1.124 mg/kg	0.000112 %	✓	
10	pyrene 204-927-3	129-00-0			0.95 mg/kg		0.89 mg/kg	0.000089 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.56 mg/kg		0.525 mg/kg	0.0000525 %	✓	
12	chrysene 601-048-00-0	205-923-4	218-01-9		0.78 mg/kg		0.731 mg/kg	0.0000731 %	✓	
13	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.73 mg/kg		0.684 mg/kg	0.0000684 %	✓	
14	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.33 mg/kg		0.309 mg/kg	0.0000309 %	✓	

#	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	benzo[a]pyrene; benzo[def]chrysene				0.54 mg/kg		0.506 mg/kg	0.0000506 %	✓	
	601-032-00-3	200-028-5	50-32-8							
16	indeno[123-cd]pyrene				0.31 mg/kg		0.29 mg/kg	0.000029 %	✓	
		205-893-2	193-39-5							
17	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							
18	benzo[ghi]perylene				0.32 mg/kg		0.3 mg/kg	0.00003 %	✓	
		205-883-8	191-24-2							
19	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	26 mg/kg		24.362 mg/kg	0.00244 %	✓	
	033-002-00-5									
20	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex }			1	300 mg/kg		281.1 mg/kg	0.0281 %	✓	
	056-002-00-7									
21	cadmium { cadmium oxide }				4.6 mg/kg	1.142	4.924 mg/kg	0.000492 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
22	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
23	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				370 mg/kg	1.462	506.707 mg/kg	0.0507 %	✓	
		215-160-9	1308-38-9							
24	copper { dicopper oxide; copper (I) oxide }				180 mg/kg	1.126	189.892 mg/kg	0.019 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
25	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	400 mg/kg		374.8 mg/kg	0.0375 %	✓	
	082-001-00-6									
26	mercury { mercury(II) sulfide }				<0.3 mg/kg	1.16	<0.348 mg/kg	<0.0000348 %		<LOD
		215-696-3	1344-48-5							
27	nickel { nickel(II) oxide (nickel monoxide) }				75 mg/kg	1.273	89.431 mg/kg	0.00894 %	✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]							
28	selenium { nickel selenate }				4.4 mg/kg	2.554	10.529 mg/kg	0.00105 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
29	vanadium { divanadium pentaoxide; vanadium pentoxide }				150 mg/kg	1.785	250.908 mg/kg	0.0251 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
30	zinc { trizinc bis(orthophosphate) }				1200 mg/kg	1.968	2213.265 mg/kg	0.221 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
31	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
32	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
33	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
34	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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]							
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
36	TPH (C6 to C40) petroleum group				68 mg/kg		63.716 mg/kg	0.00637 %	✓	
			TPH							
37	confirm TPH has NOT arisen from diesel or petrol				☒					

#	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							
38	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.402 %		

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
ND	Not detected
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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00637%)

Classification of sample: MTP106

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

Sample details

Sample name:	LoW Code:
MTP106	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.3%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.3% Wet Weight 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	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 %		<0.001 %	<0.001 %		<LOD
2	pH				10.2 pH		10.2 pH	10.2 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		0.18 mg/kg		0.163 mg/kg	0.0000163 %	✓	
4	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6	fluorene 201-695-5	86-73-7			0.07 mg/kg		0.0635 mg/kg	0.00000635 %	✓	
7	phenanthrene 201-581-5	85-01-8			0.75 mg/kg		0.68 mg/kg	0.000068 %	✓	
8	anthracene 204-371-1	120-12-7			0.19 mg/kg		0.172 mg/kg	0.0000172 %	✓	
9	fluoranthene 205-912-4	206-44-0			1.1 mg/kg		0.998 mg/kg	0.0000998 %	✓	
10	pyrene 204-927-3	129-00-0			0.82 mg/kg		0.744 mg/kg	0.0000744 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.53 mg/kg		0.481 mg/kg	0.0000481 %	✓	
12	chrysene 601-048-00-0	205-923-4	218-01-9		0.6 mg/kg		0.544 mg/kg	0.0000544 %	✓	
13	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.63 mg/kg		0.571 mg/kg	0.0000571 %	✓	
14	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.35 mg/kg		0.317 mg/kg	0.0000317 %	✓	

#	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	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.42 mg/kg		0.381 mg/kg	0.0000381 %	✓	
16	indeno[123-cd]pyrene 205-893-2	193-39-5			0.28 mg/kg		0.254 mg/kg	0.0000254 %	✓	
17	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
18	benzo[ghi]perylene 205-883-8	191-24-2			0.28 mg/kg		0.254 mg/kg	0.0000254 %	✓	
19	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex } 033-002-00-5			1	30 mg/kg		27.21 mg/kg	0.00272 %	✓	
20	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex } 056-002-00-7			1	500 mg/kg		453.5 mg/kg	0.0454 %	✓	
21	cadmium { cadmium oxide } 048-002-00-0	215-146-2	1306-19-0		4 mg/kg	1.142	4.144 mg/kg	0.000414 %	✓	
22	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
23	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9	1308-38-9			310 mg/kg	1.462	410.946 mg/kg	0.0411 %	✓	
24	copper { dicopper oxide; copper (I) oxide } 029-002-00-X	215-270-7	1317-39-1		200 mg/kg	1.126	204.236 mg/kg	0.0204 %	✓	
25	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6			1	460 mg/kg		417.22 mg/kg	0.0417 %	✓	
26	mercury { mercury(II) sulfide } 215-696-3	1344-48-5			<0.3 mg/kg	1.16	<0.348 mg/kg	<0.0000348 %		<LOD
27	nickel { nickel(II) oxide (nickel monoxide) } 028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		79 mg/kg	1.273	91.185 mg/kg	0.00912 %	✓	
28	selenium { nickel selenate } 028-031-00-5	239-125-2	15060-62-5		6.4 mg/kg	2.554	14.825 mg/kg	0.00148 %	✓	
29	vanadium { divanadium pentaoxide; vanadium pentoxide } 023-001-00-8	215-239-8	1314-62-1		150 mg/kg	1.785	242.874 mg/kg	0.0243 %	✓	
30	zinc { trizinc bis(orthophosphate) } 030-011-00-6	231-944-3	7779-90-0		1000 mg/kg	1.968	1785.335 mg/kg	0.179 %	✓	
31	benzene 601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	toluene 601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	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]		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
36	TPH (C6 to C40) petroleum group TPH				130 mg/kg		117.91 mg/kg	0.0118 %	✓	
37	confirm TPH has NOT arisen from diesel or petrol				☑					

#	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							
38	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.379 %		

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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0118%)

Classification of sample: MTP106[2]



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

Sample details

Sample name:	LoW Code:
MTP106[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.9%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.9% Wet Weight 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	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		<		<	<		ND
2	pH				10.8 pH		10.8 pH	10.8 pH		
3	naphthalene 601-052-00-2	202-049-5	91-20-3		2.7 mg/kg		2.46 mg/kg	0.000246 %	✓	
4	acenaphthylene 205-917-1	208-96-8			0.51 mg/kg		0.465 mg/kg	0.0000465 %	✓	
5	acenaphthene 201-469-6	83-32-9			0.91 mg/kg		0.829 mg/kg	0.0000829 %	✓	
6	fluorene 201-695-5	86-73-7			1.4 mg/kg		1.275 mg/kg	0.000128 %	✓	
7	phenanthrene 201-581-5	85-01-8			3.9 mg/kg		3.553 mg/kg	0.000355 %	✓	
8	anthracene 204-371-1	120-12-7			0.53 mg/kg		0.483 mg/kg	0.0000483 %	✓	
9	fluoranthene 205-912-4	206-44-0			1.7 mg/kg		1.549 mg/kg	0.000155 %	✓	
10	pyrene 204-927-3	129-00-0			1.7 mg/kg		1.549 mg/kg	0.000155 %	✓	
11	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.83 mg/kg		0.756 mg/kg	0.0000756 %	✓	
12	chrysene 601-048-00-0	205-923-4	218-01-9		0.9 mg/kg		0.82 mg/kg	0.000082 %	✓	
13	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.84 mg/kg		0.765 mg/kg	0.0000765 %	✓	
14	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.39 mg/kg		0.355 mg/kg	0.0000355 %	✓	

#	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	benzo[a]pyrene; benzo[def]chrysene				0.64 mg/kg		0.583 mg/kg	0.0000583 %	✓	
	601-032-00-3	200-028-5	50-32-8							
16	indeno[123-cd]pyrene				0.42 mg/kg		0.383 mg/kg	0.0000383 %	✓	
		205-893-2	193-39-5							
17	dibenz[a,h]anthracene				0.12 mg/kg		0.109 mg/kg	0.0000109 %	✓	
	601-041-00-2	200-181-8	53-70-3							
18	benzo[ghi]perylene				0.45 mg/kg		0.41 mg/kg	0.000041 %	✓	
		205-883-8	191-24-2							
19	arsenic { arsenic compounds, with the exception of those specified elsewhere in this Annex }			1	31 mg/kg		28.241 mg/kg	0.00282 %	✓	
	033-002-00-5									
20	barium { barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex }			1	390 mg/kg		355.29 mg/kg	0.0355 %	✓	
	056-002-00-7									
21	cadmium { cadmium oxide }				5.7 mg/kg	1.142	5.932 mg/kg	0.000593 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
22	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
23	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				560 mg/kg	1.462	745.627 mg/kg	0.0746 %	✓	
		215-160-9	1308-38-9							
24	copper { dicopper oxide; copper (I) oxide }				260 mg/kg	1.126	266.678 mg/kg	0.0267 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
25	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	570 mg/kg		519.27 mg/kg	0.0519 %	✓	
	082-001-00-6									
26	mercury { mercury(II) sulfide }				<0.3 mg/kg	1.16	<0.348 mg/kg	<0.0000348 %		<LOD
		215-696-3	1344-48-5							
27	nickel { nickel(II) oxide (nickel monoxide) }				160 mg/kg	1.273	185.493 mg/kg	0.0185 %	✓	
	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]							
28	selenium { nickel selenate }				6.1 mg/kg	2.554	14.192 mg/kg	0.00142 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
29	vanadium { divanadium pentaoxide; vanadium pentoxide }				170 mg/kg	1.785	276.472 mg/kg	0.0276 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
30	zinc { trizinc bis(orthophosphate) }				1300 mg/kg	1.968	2331.171 mg/kg	0.233 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
31	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
32	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
33	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
34	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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]							
35	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
36	TPH (C6 to C40) petroleum group				310 mg/kg		282.41 mg/kg	0.0282 %	✓	
			TPH							
37	confirm TPH has NOT arisen from diesel or petrol				☒					

#	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							
38	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.503 %		

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
ND	Not detected
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 for cumulative determinand results below the threshold of: 1 % (1%) because: Waste Classification for Soils – A Practitioners' Guide Association of Geotechnical and Geoenvironmental Specialists, 2019 "In general flammability applies to solvents and fuels which are likely to be hazardous by other properties at 0.1% to 1.0% concentrations (and at such concentrations are unlikely to be flammable)."

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0282%)

Appendix A: Classifier defined and non GB MCL determinands

• pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

• 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

• 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

• 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

• 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

• 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

• 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

• 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

• 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

• 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

arsenic compounds, with the exception of those specified elsewhere in this Annex

GB MCL index number: 033-002-00-5

Description/Comments: Worst Case: IARC considers arsenic compounds Group 1; Carcinogenic to humans

Additional Hazard Statement(s): Carc. 1A; H350

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

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

lead compounds with the exception of those specified elsewhere in this Annex (worst case)

GB MCL index number: 082-001-00-6

Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A

Additional Hazard Statement(s): Carc. 1A; H350

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

mercury(II) sulfide (EC Number: 215-696-3, CAS Number: 1344-48-5)

Description/Comments: Data from ECHA's C&L and SDS Sigma Aldrich V6 dated 17/9/2019

Threshold for EUH031 based on calculation method in WM3 Box C12.1

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/8530>

Data source date: 14 May 2020

Hazard Statements: EUH031 >= 1 % , EUH031 , Skin Sens. 1; H317 , STOT RE 2; H373

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

confirm TPH has NOT arisen from diesel or petrol

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xlenols (604-001-00-2, 604-004-00-9, 604-006-00-X)

Data source: CLP combined data

Data source date: 26 Mar 2019

Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 <= conc. < 3 % , Eye Irrit. 2; H319 1 <= conc. < 3 % , Aquatic Chronic 2; H411

Appendix B: Rationale for selection of metal species

arsenic {arsenic compounds, with the exception of those specified elsewhere in this Annex}

Reasonable worst case based on site history, geoenvironmental setting and other laboratory analysis.

barium {barium salts, with the exception of barium sulphate, salts of 1-azo-2-hydroxynaphthalenyl aryl sulphonic acid, and of salts specified elsewhere in this Annex}

Reasonable worst case based on site history, geoenvironmental setting and other laboratory analysis.

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight (edit as required)

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

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

lead smelting cannot be ruled out

mercury {mercury(II) sulfide}

Reasonable worst case based on site history, geoenvironmental setting and other laboratory analysis.

nickel {nickel(II) oxide (nickel monoxide)}

Reasonable worst case based on site history, geoenvironmental setting and other laboratory analysis.

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species (edit as required)

zinc {trizinc bis(orthophosphate)}

Reasonable worst case based on site history, geoenvironmental setting and other laboratory analysis.

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021

HazWasteOnline Classification Engine Version: 2024.213.6193.11387 (31 Jul 2024)

HazWasteOnline Database: 2024.213.6193.11387 (31 Jul 2024)

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

GB MCL List v2.0 - version 2.0 of 20th October 2023

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024