

Analytical Report Number : 21-17040
Project / Site name: Afan Way, Port Talbot

* 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 NORME validation. The laboratory is accredited for sand, silt and loam (NORME) soil types. Data for unaccredited types of soil 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 *
208004	TP01	None Expected	0.0	Brown sandy clay.
208005	TP01	None Expected	0.2	Brown clay and sand with gravel.
208006	TP02	None Expected	1	Grey sandy clay with stones.
208007	TP02	None Expected	0.8	Brown sandy clay with gravel.
208008	TP02	None Expected	2	Brown clay.
208009	TP02	None Expected	1.5	Brown clay with gravel.
208010	TP07	None Expected	1.2	Brown clay and sand.
208011	TP07	None Expected	0.28	Brown sandy clay with gravel and vegetation.
208012	TP02	None Expected	1.2	Brown clay and sand with gravel.
208013	TP02	None Expected	1.5	Brown clay and sand with gravel.
208014	TP02	None Expected	0.8	Brown clay and sand with gravel.
208015	TP10	None Expected	0.5	Brown clay and sand with gravel.
208016	0026	None Expected	0.1	Brown clay and sand with gravel and vegetation.
208017	0026	None Expected	0.8	Grey clay and sand with gravel and vegetation.
208018	TP12	None Expected	1	Grey clay and sand with gravel.

Analytical Report Number : 21-17040
Project / Site name: Afen Way, Port Talbot

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (10% extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (as sulfate equivalent) and converted for extraction ratio (soil equivalent).	In house method.	L030-PL	D	HCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua regia digestion followed by ICP-OES.	In house method based on MB/UK 2005 Methods for the Determination of Metals in Soil.	L030-PL	D	HCERTS
Colours identification in soil	Colours identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on MSD 345	L001-PL	D	ISO 17028
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In house method based on Standard EOs Properties version 2	L030-PL	D	HCERTS
Extracted aluminium in soil	Determination of extracted aluminium in soil by extraction in water then by oxidation, addition of 1,8 diphenylpicric acid followed by calorimetry.	In house method	L030-PL	W	HCERTS
Moisture Content	Moisture content, determined gravimetrically. (20 °C)	In house method.	L019-PL	W	HCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by calorimetry.	In house method based on Examination of Water and Wastewater 2005 Edition. Cason, Greenberg & Bates (Editor)	L030-PL	W	HCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L030-PL	D	HCERTS
Extracted BPO-10 PCBs in soil	Determination of PCB compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In house method based on US EPA 8270	L034-PL	D	HCERTS
PCBs by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In house method based on US EPA 8282	L037-PL	D	HCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L080-PL	D	HCERTS
Slimes content of soil	Slime preparation for all samples unless otherwise detailed. Gravimetric determination of slimes < 10 mm as % dry weight.	In house method based on British Standard Methods and HCERTS requirements.	L019-PL	D	HCERTS
Semivolatile organic compounds in soil	Determination of semivolatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In house method based on US EPA 8270	L034-PL	D	HCERTS
Total amide in soil	Determination of total amide by distillation followed by calorimetry.	In house method based on Examination of Water and Wastewater 2005 Edition. Cason, Greenberg & Bates (Editor)	L030-PL	W	HCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In house method based on US EPA 8210	L0710-PL	W	HCERTS
BTEX and MTBE in soil (Headspace)	Determination of BTEX in soil by headspace GC-MS.	In house method based on US EPA 8210	L0710-PL	W	HCERTS
TPH (oil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In house method with oil spill kit clean up.	L08170-PL	W	HCERTS

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Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TFH Binding in Soil by H2	Determination of heavy extractable hydrocarbons in soil by GC-MS.	In-house method, TFH with carbon binding and silica gel column cleanup.	1070-PL	W	HCBA75
Isotopes Quantification - Dioxins	Isotopes quantification by gas chromatography - in house method based on references.	MS Report No. 02/1995, MS 242, MS 304 & MS Blue Book (first)	1000-PL	D	ISO 17025
Organic matter (dithionite) in soil	Determination of organic matter in soil by oxidizing with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	1000-PL	D	HCBA75
G.D. for Dioxins Quant if Boreas/10 positive	Dependent on the Dioxins Quant if Boreas/10 positive scheduled.	In house analysis methods 1001 & 1002.	1000-PL	D	HCBA75
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (sulphate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	1000-PL	D	HCBA75

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' 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 300°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Analytical Report Number : 25-17040
Project / Site name: Afan Way, Port Talbot

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP01	Name Supplied	2	2000004	ab	BT01 and BT02 in soil (Heteromeric)	LC020-PL	0
TP01	Name Supplied	2	2000004	ab	Bacteriostatic agents compounds in soil	LC04-PL	0
TP01	Name Supplied	2	2000004	ab	TPH002 (Soil)	LC0210-PL	0
TP01	Name Supplied	2	2000004	ab	Acidic agents compounds in soil	LC020-PL	0
TP02	Name Supplied	2	2000005	a	Name Supplied	Name Supplied	Name Supplied
TP02	Name Supplied	2	2000005	a	Name Supplied	Name Supplied	Name Supplied
TP02	Name Supplied	2	2000007	a	Name Supplied	Name Supplied	Name Supplied
TP02	Name Supplied	2	2000008	a	Name Supplied	Name Supplied	Name Supplied
TP02	Name Supplied	2	2000009	ab	Hexachloro alkanes in soil	LC02-PL	0
TP02	Name Supplied	2	2000009	ab	Exhausted EPA-05 PCBs in soil	LC04-PL	0
TP07	Name Supplied	2	2000010	a	Name Supplied	Name Supplied	Name Supplied
TP07	Name Supplied	2	2000011	a	Name Supplied	Name Supplied	Name Supplied
TP08	Name Supplied	2	2000012	a	Name Supplied	Name Supplied	Name Supplied
TP08	Name Supplied	2	2000013	a	Name Supplied	Name Supplied	Name Supplied
TP08	Name Supplied	2	2000014	a	Name Supplied	Name Supplied	Name Supplied
TP10	Name Supplied	2	2000015	a	Name Supplied	Name Supplied	Name Supplied
TP18	Name Supplied	2	2000016	a	Name Supplied	Name Supplied	Name Supplied
0000	Name Supplied	2	2000016	a	Name Supplied	Name Supplied	Name Supplied
0000	Name Supplied	2	2000017	a	Name Supplied	Name Supplied	Name Supplied

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Analytical Report Number : 21-17049

Project / Site name:	Afen Way, Port Talbot	Samples received on:	14/10/2021
Your job number:	GRO-21252	Samples instructed on/ Analysis started on:	14/10/2021
Your order number:		Analysis completed by:	25/10/2021
Report Issue Number:	1	Report issued on:	25/10/2021
Samples Analysed:	3 10:1 WAC samples		

Signed: 

Karolina Marek
PL Head of Reporting Team
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.

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Waste Acceptance Criteria Analytical Results

Report Ref:	33-17048					
				Client: GRNTECH		
Location	Alan Way, Park Talbot					
Lab Reference (Sample Number)	000000 / 000000			Landfill Waste Acceptance Criteria		
Sampling Date				Units		
Sample ID	TADT			Organic (Waste Landfill)	Highly Reactive (Waste Landfill)	Hazardous (Waste Landfill)
Depth (m)	1.00					
Build Waste Analysis						
HDD (%)**	0.0			2%	0%	0%
Loss on Ignition (%) **	1.8			--	--	10%
BTAC (Bq/kg) **	< 10			6000	--	--
Sum of PCBs (mg/kg) **	< 0.007			1	--	--
Mineral Oil (mg/kg)	< 10			800	--	--
Total PCB (HDD+BT) (mg/kg)	< 0.009			100	--	--
pH (units)**	8.0			--	>8	--
Acid Neutralisation Capacity (meq / kg)	0.0			--	To be evaluated	To be evaluated
Eluate Analysis				Limit values for simultaneous leaching test		
(EE B) 12487 - 1 preparation column and over and loading procedure)	10.1		10.1	using EE B) 12487-0 at 4/8 10 (kg (mg/kg)		
	mg/l		mg/kg			
Arsenic *	< 0.0010		< 0.0100	0.8	1	10
Barium *	0.0177		0.188	20	100	200
Cadmium *	< 0.0001		< 0.0008	0.04	1	8
Chromium *	0.0004		< 0.0040	0.8	10	70
Copper *	0.0003		0.008	3	80	100
Mercury *	< 0.0008		< 0.0080	0.01	0.3	3
Molybdenum *	0.0001		0.0074	0.8	10	30
Nickel *	0.0086		0.081	0.4	10	40
Lead *	0.0040		0.036	0.8	10	80
Uranium *	< 0.0017		< 0.017	0.08	0.7	8
Selenium *	< 0.0040		< 0.040	0.1	0.8	7
Silver *	0.044		0.40	4	80	300
Chloride *	0.66		6.6	800	18000	28000
Fluoride	0.38		3.8	10	180	800
Sulphate *	8.0		80	1000	20000	80000
TDS*	47		430	4000	60000	100000
Mineral Index (Mineral Index Phosphorus) *	< 0.010		< 0.10	1	-	-
DOC	1.08		04.8	800	800	1000
Leach Test Information						
Eluate Content (%)	< 0.1					
Sample Mass (kg)	0.80					
Dry Matter (%)	80					
Moisture (%)	18					
Results are expressed as a dry weight basis, after correction for moisture content where applicable.						
* = 100% acidified (liquid eluate analysis only)						
** = 100% acidified (solid waste analysis only)						

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Waste Acceptance Criteria Analytical Results

Report Ref:	33-17018					
				Client: GRNTECH		
Location	Athen Way, Park Talbot			Landfill Waste Acceptance Criteria		
Lab Reference (Sample Number)	330000 / 330000			Units		
Sampling Date	1999			Over 1000 Landfill	Excess Non- residue Hazardous waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID						
Depth (m)	1.00					
Solid Waste Analysis						
TOC (%)**	1.6			2%	0%	0%
Loss on Ignition (%)**	4.7			--	--	10%
BTX (g/kg)**	< 10			0.001	--	--
Sum of PCBs (mg/kg)**	< 0.001			1	--	--
Mineral Oil (mg/kg)	< 10			100	--	--
Total PAH (HCB+BTX) (mg/kg)	0.0			100	--	--
pH (unit)**	8.0			--	> 8	--
Soil Neutralisation Capacity (mol / kg)	14			--	To be evaluated	To be evaluated
Element Analysis				10.1	Limit values for elemental leaching test using BS EN 12457-3 at 100 g (mg/kg)	
(EU EN 12457 - 3 preparation utilising and over and loading procedure)	mg/l		mg/kg			
Arsenic *	< 0.0010		< 0.0100	0.8	1	10
Barium *	0.0000		0.000	0.0	100	100
Cadmium *	< 0.0001		< 0.0001	0.04	1	8
Chromium *	0.0000		0.000	0.8	10	10
Copper *	0.0007		0.040	0	80	100
Mercury *	< 0.0000		< 0.0000	0.01	0.3	3
Molybdenum *	< 0.0004		< 0.0004	0.8	10	10
Nickel *	0.0000		0.040	0.4	10	40
Lead *	0.0001		0.007	0.8	10	80
Lithium *	< 0.0017		< 0.017	0.06	0.7	8
Boron *	< 0.0040		< 0.040	0.1	0.8	7
Strontium *	0.000		0.04	4	80	100
Chloride *	1.7		18	100	1000	10000
Fluoride *	0.18		1.8	10	100	100
Sulphate *	0.8		87	1000	10000	100000
TOC*	0.0		400	4000	100000	1000000
Mineral Index (Mineralogical Index) *	< 0.010		< 0.10	1	--	--
DOC	0.00		00.1	100	100	1000
Leach Test Information						
Eluate Content (%)	< 0.1					
Sample Mass (kg)	0.00					
Dry Matter (%)	0.0					
Moisture (%)	10					
Results are expressed on a dry weight basis, after correction for moisture content where applicable.						
Method limits are for guidance only and it cannot be held responsible for any discrepancies with current legislation						
** = HCBT exceeded						
Landfill WAC analysis (especially leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EU Directive 1991.						
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.						

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Waste Acceptance Criteria Analytical Results

Report Ref:	33-17048			Client: GRNTECH		
Location	Athen Way, Park Talbot			Landfill Waste Acceptance Criteria		
Lab Reference (Sample Number)	330040 / 330041			Units		
Sampling Date	19/02			Inert Waste Landfill	Hazardous waste in non- hazardous Landfill	Hazardous Waste Landfill
Sample ID	1902					
Depth (m)	0.00					
Soil Waste Analysis						
DOC (N ₂) **	0.0			2%	0%	0%
Loss on Ignition (N ₂) **	0.0			—	—	10%
BTX (B ₂) **	< 0.001			0.001	—	—
Sum of PCBs (mg/kg) **	< 0.001			1	—	—
Mineral Oil (mg/kg)	27			800	—	—
Total PAH (HCB+BTX) (mg/kg)	84.8			100	—	—
pH (unit) **	0.0			—	> 5	—
Soil Neutralisation Capacity (meq / kg)	10			—	To be evaluated	To be evaluated
Element Analysis				Limit values for acceptance leaching test using EE B) 12487-1 at 4.0 10 (kg (mg/kg))		
(EE B) 12487 - 1 preparation utilizing and over and leaching procedure	mg/l		mg/kg			
Carbon *	0.0104		0.0008	0.0	0	10
Boron *	0.0010		0.0008	0.0	100	100
Cadmium *	< 0.0001		< 0.0008	0.04	1	8
Chromium *	< 0.0004		< 0.0040	0.8	10	10
Copper *	0.011		0.008	0	80	100
Mercury *	< 0.0008		< 0.0008	0.01	0.3	0
Molybdenum *	0.0008		0.0017	0.8	10	10
Nickel *	0.0007		0.047	0.4	10	40
Lead *	0.0044		0.008	0.8	10	80
Vanadium *	< 0.0017		< 0.017	0.06	0.7	8
Bismuth *	< 0.0040		< 0.040	0.1	0.8	7
Iron *	0.0008		0.046	4	80	100
Chloride *	1.0		0.0	100	10000	10000
Fluoride *	0.18		1.8	10	180	800
Sulfate *	870		4700	1000	10000	80000
NO ₃ *	280		2300	4000	60000	100000
Phenol Index (Phenol/dioxin Phenol) *	< 0.010		< 0.10	1	—	—
DOC	0.00		10.0	800	800	1000
Leach Test Information						
Eluate Content (N ₂)	< 0.1					
Sample Mass (kg)	0.00					
Dry Matter (N ₂)	80					
Moisture (N ₂)	0.0					
Results are expressed on a dry weight basis, after correction for moisture content where applicable.						
Method limits are for guidance only and it cannot be held responsible for any discrepancies with current legislation				** = HCBT established		
Landfill WAC analysis (especially leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EU Guidance (WAC).						
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.						

Analytical Report Number : Z1-17049

Project / Site name: Afan Way, Port Talbot

* 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 M-CERTS validation. The laboratory is accredited for sand, silt and loam (M-CERTS) soil types. Data for unaccredited types of soil 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 recorded for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
000000	TP07	Name Supplied	1.0	Brown clay and sand.
000002	TP08	Name Supplied	1.0	Brown clay and sand with gravel.
000040	TP10	Name Supplied	0.0	Brown clay and sand with gravel.

Analytical Report Number : 21-17046
Project / Site name: Afen Way, Port Talbot

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10.1) Leachate Free	10.1 (as received, moisture adjusted) and water and extraction with water for 24 hours. Results filtered prior to analysis.	In-house method based on BS EN 12457-2.	L245-PL	W	NCNB
Soil neutralisation capacity of soil	Determination of soil neutralisation capacity by addition of acid or alkali followed by electronic analysis.	In-house method based on Guidance on Sampling and Testing of Soils to Meet Landfill Waste Acceptance	L246-PL	W	NCNB
Loss on ignition of soil @ 480°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In-house method.	L247-PL	D	HCERTS
Mineral Oil (Bt) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/blend up.	L250-PL	D	NCNB
Moisture Content	Moisture content, determined gravimetrically. (30 wt)	In-house method.	L258-WG/PL	W	NCNB
Extracted HEDDT PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on US EPA 8270. HCERTS accredited except Devenham.	L264-PL	D	NCNB
PCBs by GC-MS in soil	Determination of PCB by extraction with hexane and hexane followed by GC-MS.	In-house method based on US EPA 8280	L267-PL	D	HCERTS
pH of 25°C in soil	Determination of pH in soil by addition of water followed by electronic measurement.	In-house method.	L268-PL	W	HCERTS
Slime content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of slime in 10 mm or 60 dry weight.	In-house method based on British Standard Methods and HCERTS requirements.	L269-WG/PL	D	NCNB
Total organic carbon (determined) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method.	L269-PL	D	HCERTS
BTBC in soil (Hexane/methanol)	Determination of BTBC in soil by headspace GC-MS.	In-house method based on US EPA 8210	L270B-PL	W	HCERTS
Total BTBC in soil (Polar)	Determination of BTBC in soil by headspace GC-MS.	In-house method based on US EPA 8210	L270-PL	W	HCERTS
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on HSE/UK 2000 Methods for the Determination of Metals in Soil	L289-PL	W	ISO 17028
Chloride 10.1 WLC	Determination of Chloride externally by discrete analysis.	In-house based on HSE/UK Method 1805 0117010100.	L292-PL	W	ISO 17028
Fluoride 10.1 WLC	Determination of Fluoride in leachate by 1.1mls with a buffer solution followed by Ion Selective Electrode.	In-house method based on use of Teflon Beams (Strongly Adjusted Buffer for Electrode Determination)	L293B-PL	W	ISO 17028
Sulphate 10.1 WLC	Determination of sulphate in leachate by ICP-OES	In-house method based on HSE/UK 1800 Methods for the Determination of Metals in Soil	L298-PL	W	ISO 17028
Total Dissolved Solids 10.1 WLC	Determination of Total Dissolved Solids in water by GC analysis using a Teflon of 0.5.	In-house method based on Examination of Water and Wastewater 20th Edition. Clesceri, Greenberg & Eaton	L299-PL	W	ISO 17028

Analytical Report Number : 21-17049
Project / Site name: Afen Way, Port Talbot

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Heavy metals (10.1.012)	Determination of metals in leachate by digestion followed by spectrometry.	In-house method based on Determination of Water and Wastewater 201: 801am. Casson, Greenberg & Balen	1020-PL	W	ISO 17028
Dissolved organic carbon (10.1.012)	Determination of dissolved organic carbon in leachate by TOC/DIC/DOC analysis.	In-house method based on Determination of Water and Wastewater 201: 801am. Casson, Greenberg & Balen	1027-PL	W	ISO 17028

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' 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 360°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report



Analytical Report Number : 21-17046
 Project / Site name: Afan Way, Port Talbot

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TR01	None Supplied	L	1000007	a	None Supplied	None Supplied	None Supplied
TR01	None Supplied	B	1000010	a	None Supplied	None Supplied	None Supplied
TR02	None Supplied	L	1000018	a	None Supplied	None Supplied	None Supplied
TR02	None Supplied	B	1000019	a	None Supplied	None Supplied	None Supplied
TR03	None Supplied	L	1000040	a	None Supplied	None Supplied	None Supplied
TR03	None Supplied	B	1000042	a	None Supplied	None Supplied	None Supplied

APPENDIX 9 - Geo-Environmental Testing (Groundwater)



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Analytical Report Number : 21-24373

Project / Site name:	Afan Way, Port Talbot	Samples received on:	19/11/2021
Your job number:	GRO-21252	Samples instructed on/ Analysis started on:	23/11/2021
Your order number:		Analysis completed by:	25/11/2021
Report Issue Number:	1	Report issued on:	25/11/2021
Samples Analysed:	4 water samples		

Signed: 

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of I2 Analytical Ltd.

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

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

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

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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

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

Analytical Report Number: 21-24373
Project / Site name: Afen Way, Port Talbot

Lab Sample Number	2090277	2090278	2090279	2090280
Sample Reference	CP01	CP02	CP03	CP04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH	pH Units	N/A	ISO 17025	7.4	7.3	7.4	7.3
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10
Sulphate as SO ₄	mg/l	0.045	ISO 17025	359	44.0	220	41.4
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	12.2	1.50	4.25	4.09

Hardness - Total	g/l	1	ISO 17025	355	21.7	354	374
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Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10
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Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benz(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benz(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benz(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benz(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benz(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.15	ISO 17025	< 0.15	< 0.15	< 0.15	< 0.15
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Heavy Metals / Metalloids

Boron (dissolved)	µg/l	10	ISO 17025	310	110	130	240
Calcium (dissolved)	mg/l	0.012	ISO 17025	140	89	120	120
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium (dissolved)	mg/l	0.005	ISO 17025	45	11	13	19

Arsenic (dissolved)	µg/l	0.15	ISO 17025	2.55	< 0.15	0.39	1.55
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	0.04	0.07	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	3.7	5.2	2.9	4.3
Copper (dissolved)	µg/l	0.5	ISO 17025	3.7	2.1	3.1	2.7
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	1.0	< 0.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	5.4	3.0	4.7	5.5
Selenium (dissolved)	µg/l	0.6	ISO 17025	1.1	0.7	0.7	< 0.6
Zinc (dissolved)	µg/l	0.5	ISO 17025	7.5	9.4	22	14

Analytical Report Number: 21-24373
Project / Site name: Afan Way, Port Talbot

Lab Sample Number	2090277	2090278	2090279	2090280
Sample Reference	CP01	CP02	CP03	CP04
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status	

Monoaromatics & Oxygenates

Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
NTSE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH1 (C10 - C40)	µg/l	10	NONE	< 10	< 10	< 10	< 10
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TPH-CWG - Aliphatic >C5 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C9	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C9 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C15	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C15 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10

TPH-CWG - Aromatic >C5 - C7	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C15	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C15 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10

VOCs

Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Bromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Car-1,2-dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
NTSE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Car-1,2-dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-24373
Project / Site name: Afan Way, Port Talbot

Lab Sample Number				2090277	2090278	2090279	2090280
Sample Reference				CP01	CP02	CP03	CP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/11/2021	18/11/2021	18/11/2021	18/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status				
Trans-1,2-dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromochloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
propargyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

U/S = Unavailable Sample I/S = Insufficient Sample

Analytical Report Number : 21-24373
Project / Site name: Afan Way, Port Talbot

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
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B-SW, GW, Hg-SW, PW, As-SW, PW.	In-house method based on US EPA Method 8000 & 100.5 for the determination of trace elements in water by ICP-MS.	L015-PL	W	ISO 17025
Boron in water	Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MDWH	L009-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices: SW, GW, PW, PrW, AL, Cu, Fe, Zn.	In-house method based on MDWH 2008 Methods for the Determination of Metals in Soil.	L009-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices: SW, GW, PrW.	L080-PL	W	ISO 17025
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices: SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Speciated PAH-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on US EPA 8270	L1008-PL	W	ISO 17025
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices: SW, GW, PW.	In-house method based on MDWH 2008 Methods for the Determination of Metals in Soil.	L009-PL	W	ISO 17025
TPH/CWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	None
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on US EPA 8260	L0708-PL	W	ISO 17025
Dissolved Organic Carbon in water	Determination of dissolved inorganic carbon in water by TOC/DOC/NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L027-PL	W	ISO 17025
BTEX and HTBS in water (Monocyclic)	Determination of BTEX and HTBS in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on US EPA 8260	L0708-PL	W	ISO 17025
pH at 20°C in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
TPHS (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS.	In-house method	L070-PL	W	None

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' 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 : 21-24373
Project / Site name: Afan Way, Port Talbot

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.

Sample Deviation Report



Analytical Report Number : 21-24373
Project / Site name: Afen Way, Port Talbot

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
CP01	None Supplied	W	2090277	c	pH at 20oC in water (automated)	L099-PL	c
CP02	None Supplied	W	2090278	c	pH at 20oC in water (automated)	L099-PL	c
CP03	None Supplied	W	2090279	c	pH at 20oC in water (automated)	L099-PL	c
CP04	None Supplied	W	2090280	c	pH at 20oC in water (automated)	L099-PL	c

APPENDIX 10 - Geotechnical Testing



LABORATORY REPORT



4043

Contract Number: PSL21/8503

Report Date: 15 November 2021

Client's Reference:

Client Name: Groundtech Consulting
First Floor
Lloyd House
Orford Court
Greenfold Way
WN7 3XJ

For the attention of: Cameron Wallace

Contract Title: Afan Way, Port Talbot

Date Received: 29/10/2021

Date Commenced: 29/10/2021

Date Completed: 15/11/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Senior Technician)

S Eyre
(Senior Technician)


T Watkins
(Senior Technician)

5 - 7 Hexthorpe Road, Hexthorpe,

Doncaster DN4 0AR

tel: +44 (0)844 815 6641

fax: +44 (0)844 815 6642

e-mail: awatkins@prosoils.co.uk

rberriman@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL

Professional Soils Laboratory

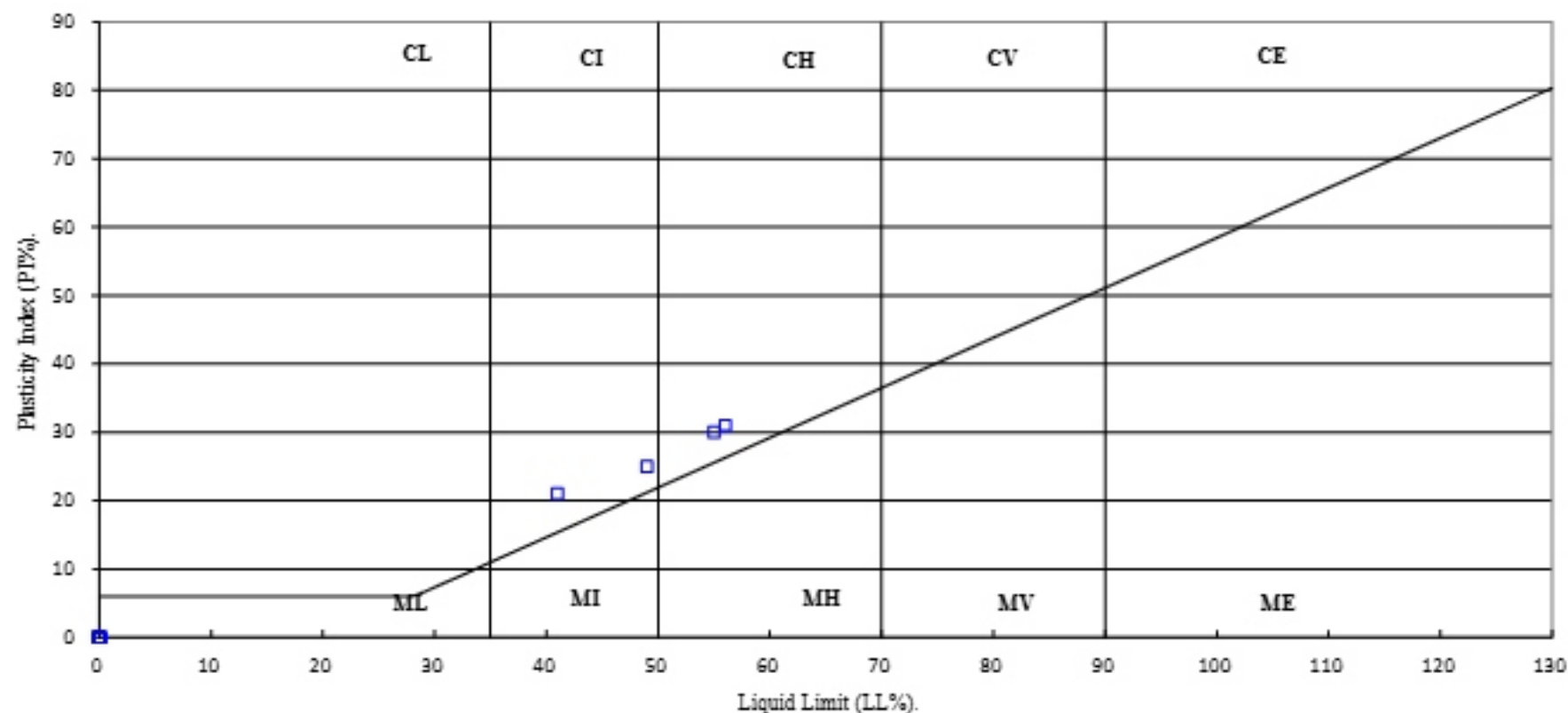
Afan Way, Port Talbot

Contract No:

PSL21/8503

Client Ref:

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



PSL
Professional Soils Laboratory

Afan Way, Port Talbot

Contract No:

PSL21/8503

Client Ref:

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

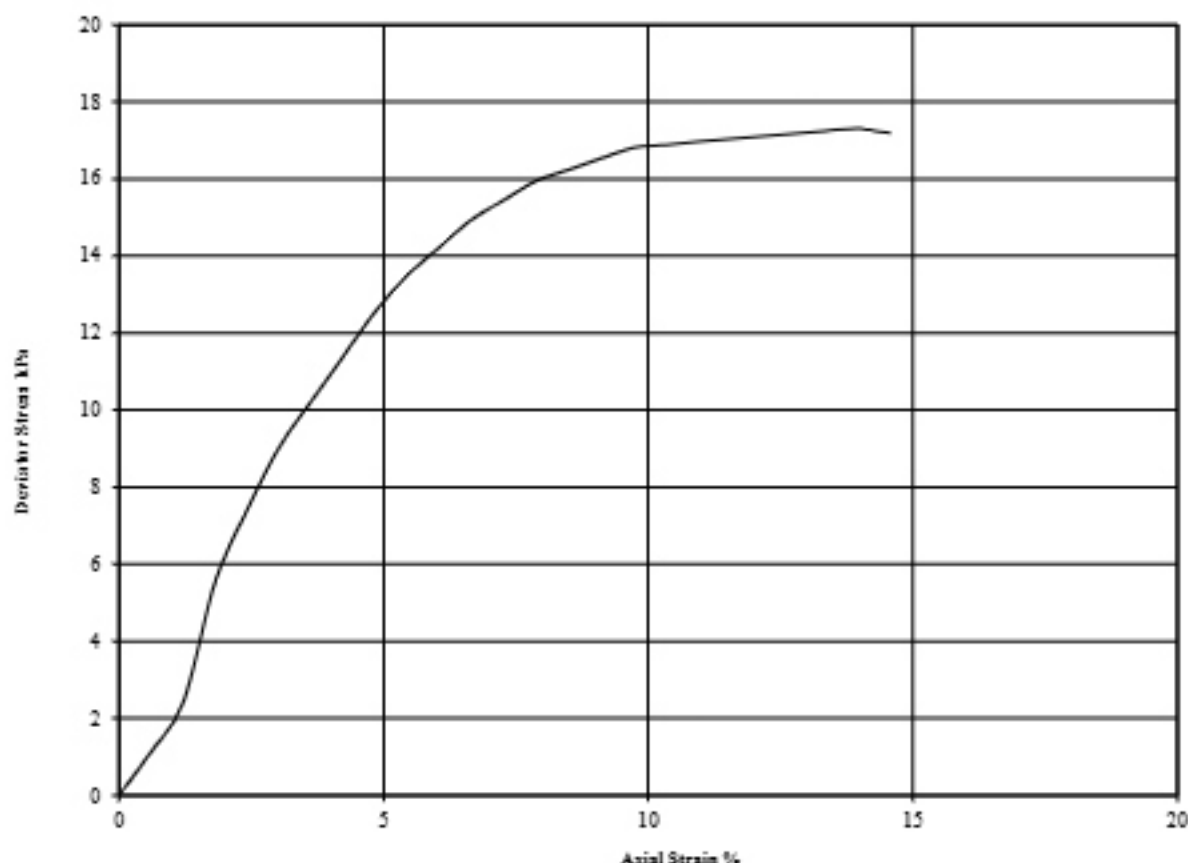
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: CP1 Top Depth (m): 3.00

Sample Number: Base Depth (m): 3.45

Sample Type U



Diameter (mm):		Height (mm):		Test:		UU Single Stage		Remarks:	
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	
				σ_3	$(\sigma_1 - \sigma_3)_r$	$\frac{1}{2}(\sigma_1 - \sigma_3)_r$			Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
1	34	1.86	1.39	60	17	9	14.0	Plastic	



4043

PSL

Professional Soils Laboratory

Afan Way, Port Talbot.

Contract No:

PSL21/8503

Client Ref:

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

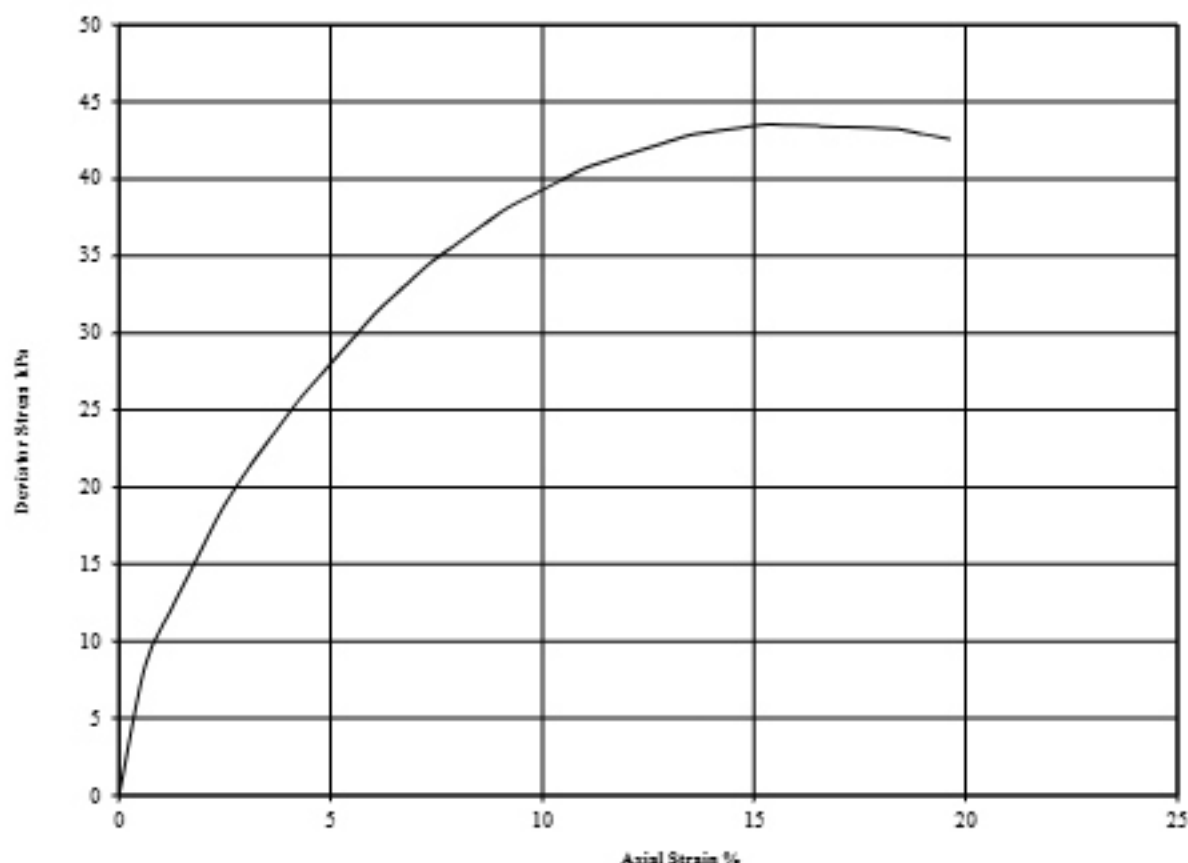
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: CP02 Top Depth (m): 4.00

Sample Number: Base Depth (m): 4.45

Sample Type U



Diameter (mm):		103	Height (mm):		168	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				σ_3	$(\sigma_1 - \sigma_3)_r$	$\frac{1}{2}(\sigma_1 - \sigma_3)_r$			
1	26	1.80	1.43	80	44	22	15.3	Plastic	



4043

PSL

Professional Soils Laboratory

Afan Way, Port Talbot.

Contract No:

PSL21/8503

Client Ref:

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

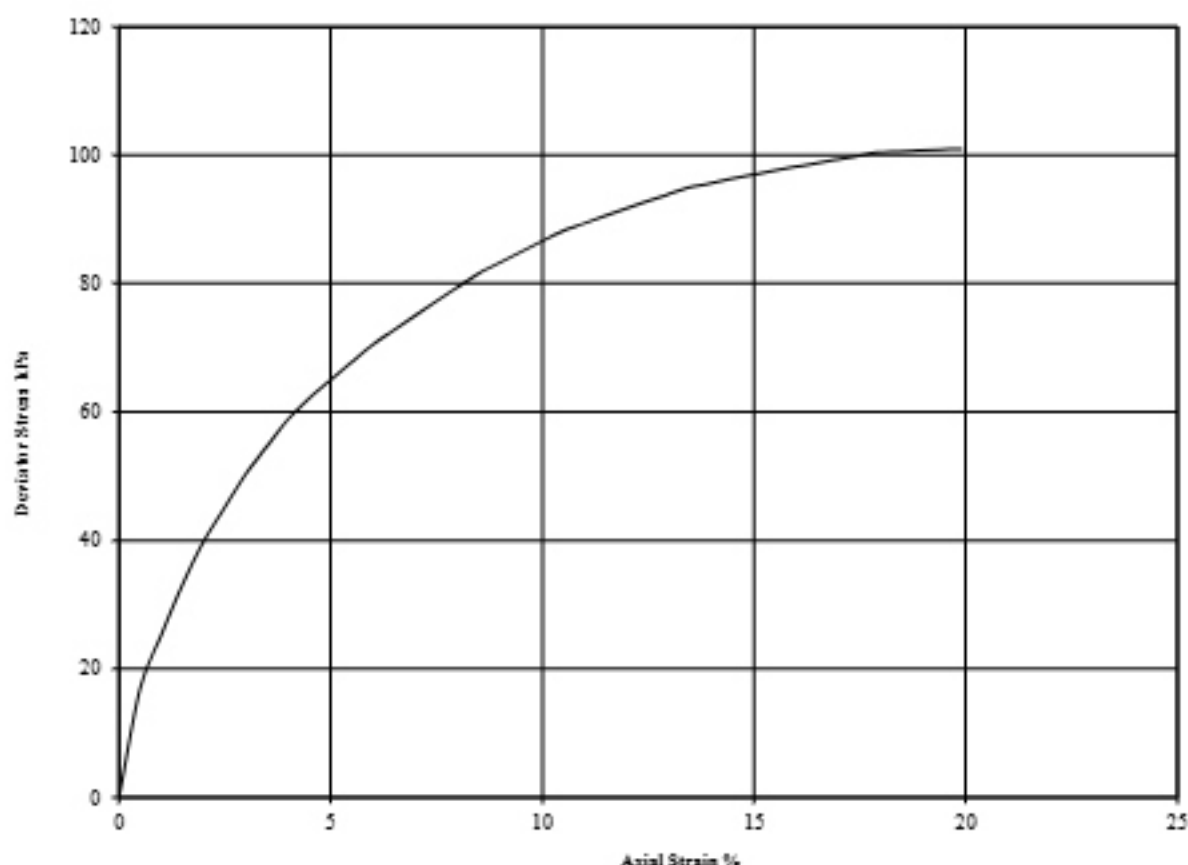
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: CP03 Top Depth (m): 4.00

Sample Number: Base Depth (m): 4.45

Sample Type U



Diameter (mm):		Height (mm):		Test:		UU Single Stage		Remarks:	
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	
				σ_3	$(\sigma_1 - \sigma_3)_r$	$\frac{1}{2}(\sigma_1 - \sigma_3)_r$			Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.33
1	24	2.00	1.61	80	101	50	19.9	Plastic	See summary of soil descriptions



4043

PSL

Professional Soils Laboratory

Afan Way, Port Talbot.

Contract No:

PSL21/8503

Client Ref:

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

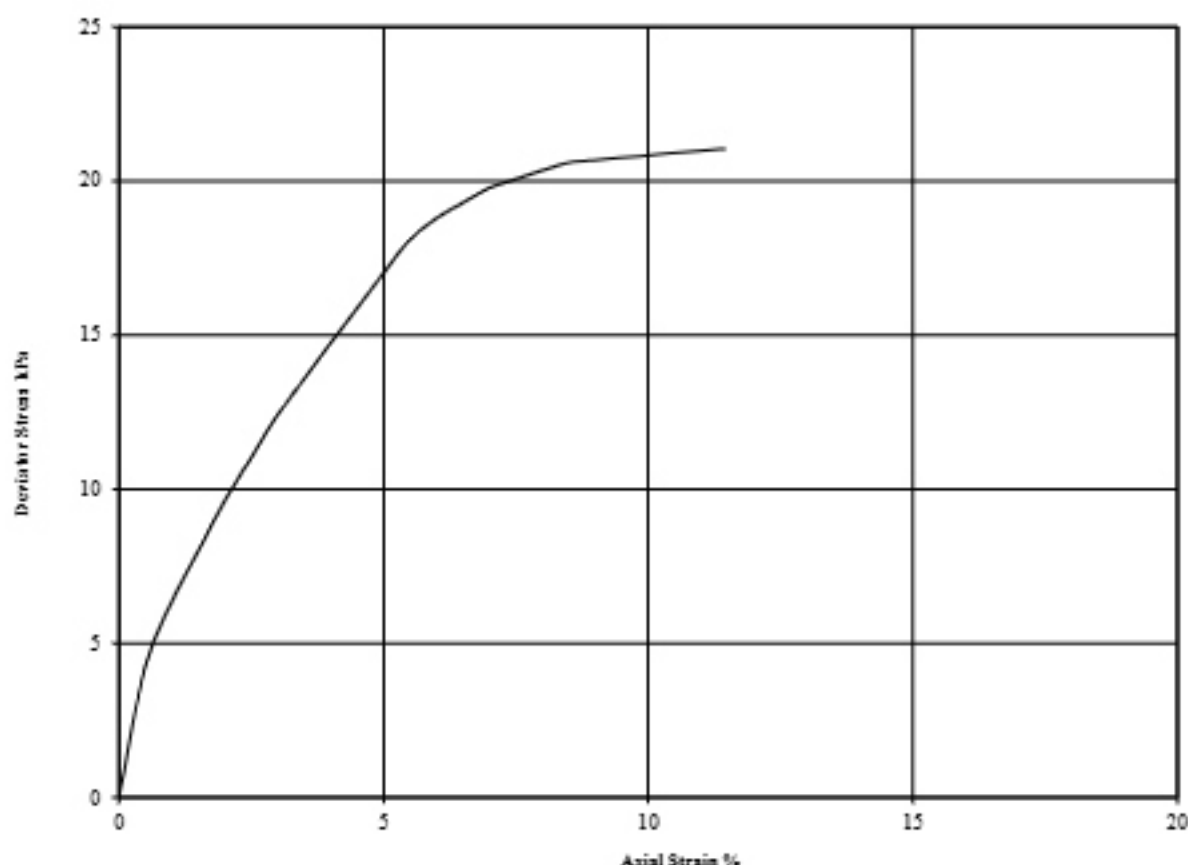
Hole Number: CP04

Top Depth (m): 3.50

Sample Number:

Base Depth (m): 3.95

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				σ_3	$(\sigma_1 - \sigma_3)_c$	$\frac{1}{2}(\sigma_1 - \sigma_3)_c$			
1	36	1.84	1.35	70	21	11	11.4	Plastic	



4043

PSL

Professional Soils Laboratory

Afan Way, Port Talbot.

Contract No:

PSL21/8503

Client Ref:

Robbie Moore
Waterman Infrastructure & Environment Ltd
Pickfords Wharf
Clink Street
London
SE1 9DG

I2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 02079287888

t: 01923 225404

f: 01923 237404

e: robbie.moore@watermangroup.com

e: reception@i2analytical.com

Analytical Report Number : 21-18635

Project / Site name:	Afan Way Park Talbot	Samples received on:	04/10/2021
Your job number:	GRO 21252	Samples instructed on/ Analysis started on:	14/10/2021
Your order number:	2121	Analysis completed by:	04/11/2021
Report Issue Number:	1	Report issued on:	04/11/2021
Samples Analysed:	3 soil samples		

Signed:

Izabela Wójcik

Izabela Wójcik
Technical Reviewer (Reporting Team)
For & on behalf of I2 Analytical Ltd.

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

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

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

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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

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

Analytical Report Number: 21-18635
Project / Site name: Afan Way Park Talbot

Lab Sample Number				2059954	2059955	2059956
Sample Reference				TP2	TP3	TP6
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				3.00	1.50	2.50
Date Sampled				Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Silica Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	27	21	18
Total mass of sample received	kg	0.001	NONE	0.50	0.40	0.50

General Inorganics

pH - Automated	pH units	N/A	MCERTS	6.4	7.4	7.7
Total Sulphate as SO ₄	%	0.005	MCERTS	0.037	0.037	0.055
Water Soluble SO ₄ 18hr extraction (2:1 Leadhite Equivalent)	g/l	0.00125	MCERTS	0.036	0.024	0.23
Water Soluble SO ₄ 18hr extraction (2:1 Leadhite Equivalent)	mg/l	1.25	MCERTS	36.0	24.3	233
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	30	2.2	4.3
Total Sulphur	%	0.005	MCERTS	0.030	0.030	0.115
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	1	NONE	2.1	2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	250	18	7.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	130	8.7	3.5

U/S = Unavailable Sample I/S = Insufficient Sample



Analytical Report Number : 21-18633

Project / Site name: Afan Way Park Talbot

* 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 soil 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 *
2009054	TP2	None Supplied	2	Brown clay.
2009055	TP3	None Supplied	1.5	Brown clay and sand.
2009056	TP6	None Supplied	2.6	Brown clay and sand.

Analytical Report Number : 21-18633
Project / Site name: Afan Way Park Talbot

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	On-house method based on TRL 447	L036-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (20 °C)	On house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	On house method.	L036-PL	D	HCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	On-house method based on British Standard Methods and HCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% KOH followed by ICP-OES.	On house method.	L036-PL	D	HCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	On house method.	L036-PL	D	HCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	On house method.	L036-PL	D	HCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	On-house method based on Examination of Water and Wastewater & Polish Standard Method PN-62/C-04579-06, 2:1 extraction.	L076-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	On house method.	L062-PL	D	HCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	On house method.	L036-PL	D	HCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Analytical Report Number : 21-15533
 Project / Site name: Afan Way Park Talbot

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP2	None Supplied	G	205954	a	None Supplied	None Supplied	None Supplied
TP3	None Supplied	G	205955	a	None Supplied	None Supplied	None Supplied
TP6	None Supplied	G	205956	a	None Supplied	None Supplied	None Supplied

APPENDIX 11 - Interim Permanent Gas Monitoring Results

PERMANENT GROUND GAS MONITORING FORM



SITE NAME:	AFAN WAY, PORT TALBOT	ENGINEER:	Jack Perkins
CLIENT:	ALDI STORES LIMITED	DATE:	18/11/2021
JOB NO:	GRO-21252		

Pressure Trend:	Rising	Weather:	Overcast			Equipment:	GFM 436
Ambient:	O ₂ (%v/v)	CH ₄ (%v/v)	CO ₂ (%v/v)	LEL	H ₂ S (ppm)	CO (ppm)	
Start	20.3	0.0	0.0	0.0	0.0	0.0	
Finish	20.3	0.0	0.0	0.0	0.0	0.0	

BH Ref.	Gas Flow Rate (l/hr)		Borehole Pressure (mb)	Methane (%v/v)			Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		Q _{avg} CO ₂ (l/hr)	Q _{avg} CH ₄ (l/hr)	Atmos Press (mb)	PID (ppm)	Sheen (Y/N)	Depth to Water (m bgl)
	Peak	Steady		Peak	Steady	LEL	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady						
CP01	0.0	0.0	0.00	0.0	0.0	0.0	1.1	0.5	17.8	19.2	0.0	0.0	0.0	0.0	0.0011	0.0000	1027	-	N	3.02
CP02	0.0	0.0	0.00	0.0	0.0	0.0	3.1	1.6	14.4	17.3	0.0	0.0	0.0	0.0	0.0031	0.0000	1027	-	N	2.80
CP03	0.0	0.0	0.00	0.0	0.0	0.0	2.0	0.8	12.5	16.9	0.0	0.0	0.0	0.0	0.0020	0.0000	1027	-	N	2.95
CP04	0.0	0.0	0.00	0.0	0.0	0.0	1.4	0.4	18.2	19.8	0.0	0.0	0.0	0.0	0.0014	0.0000	1027	-	N	2.58
WS02	0.0	0.0	0.00	0.0	0.0	0.0	4.2	0.4	4.3	18.9	0.0	0.0	0.0	0.0	0.0042	0.0000	1027	-	N	1.88
WS03	0.0	0.0	0.00	0.0	0.0	0.0	3.9	3.9	14.9	15.0	0.0	0.0	0.0	0.0	0.0039	0.0000	1027	-	N	NGW
WS05	0.0	0.0	0.00	0.0	0.0	0.0	2.4	2.4	16.3	16.3	0.0	0.0	0.0	0.0	0.0024	0.0000	1027	-	N	1.84
WS06	0.0	0.0	0.00	4.0	1.8	80.0	2.6	1.5	15.7	17.8	0.0	0.0	0.0	0.0	0.0026	0.0040	1027	-	N	2.22

Notes:

PERMANENT GROUND GAS MONITORING FORM



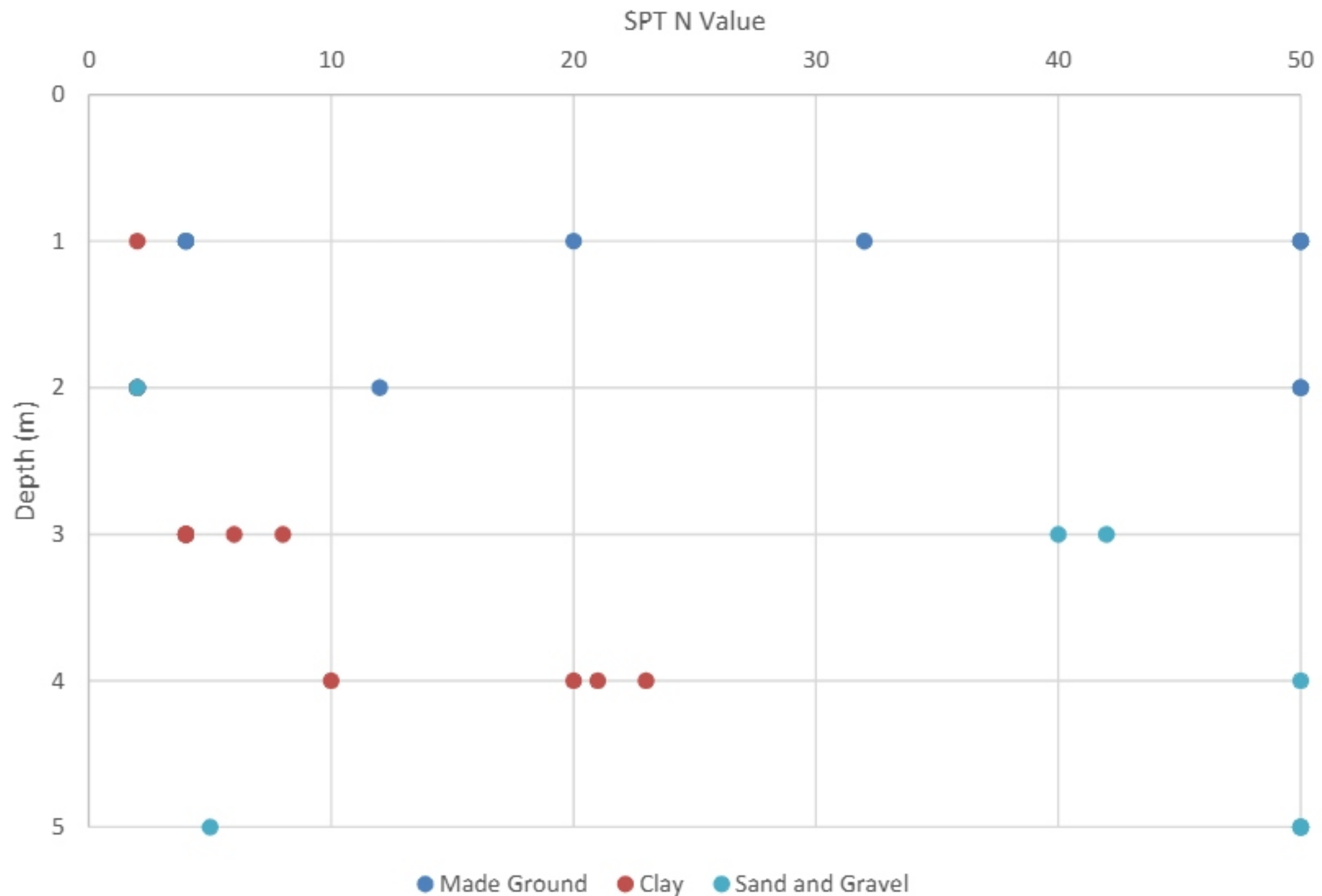
SITE NAME:	AFAN WAY, PORT TALBOT	ENGINEER:	Josh Turton
CLIENT:	ALDI STORES LIMITED	DATE:	09/12/2021
JOB NO:	GRO-21252		

Pressure Trend:	Steady	Weather:	Overcast			Equipment:	GFM 436
Ambient:	O ₂ (%v/v)	CH ₄ (%v/v)	CO ₂ (%v/v)	LEL	H ₂ S (ppm)	CO (ppm)	
Start	20.5	0.0	0.0	0.0	0.0	0.0	
Finish	20.4	0.0	0.0	0.0	0.0	0.0	

BH Ref.	Gas Flow Rate (l/hr)		Borehole Pressure (mb)	Methane (%v/v)			Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		Q _{CH₄} CO ₂ (l/hr)	Q _{CH₄} (l/hr)	Atmos Press (mb)	PID (ppm)	Sheen (Y/N)	Depth to Water (m bgl)
	Peak	Steady		Peak	Steady	LEL	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady						
CP01	0.0	0.0	0.00	0.0	0.0	0.0	1.0	0.4	18.0	19.2	0.0	0.0	0.0	0.0	0.0010	0.0000	1003	-	N	2.89
CP02	0.0	0.0	0.00	0.0	0.0	0.0	3.5	1.9	13.5	18.2	0.0	0.0	0.0	0.0	0.0035	0.0000	1003	-	N	2.75
CP03	0.0	0.0	0.00	0.0	0.0	0.0	1.8	0.8	13.0	16.9	0.0	0.0	0.0	0.0	0.0018	0.0000	1003	-	N	2.74
CP04	0.0	0.0	0.00	0.0	0.0	0.0	0.8	0.0	19.1	19.8	0.0	0.0	0.0	0.0	0.0008	0.0000	1003	-	N	2.79
WS02	0.0	0.0	0.00	0.0	0.0	0.0	3.7	0.0	15.3	20.1	0.0	0.0	0.0	0.0	0.0037	0.0000	1003	-	N	1.55
WS03	0.0	0.0	0.00	0.0	0.0	0.0	3.7	3.5	16.2	16.8	0.0	0.0	0.0	0.0	0.0037	0.0000	1003	-	N	NGW
WS05	0.0	0.0	0.00	0.0	0.0	0.0	1.5	1.4	17.3	17.8	0.0	0.0	0.0	0.0	0.0015	0.0000	1003	-	N	1.67
WS06	0.0	0.0	0.00	2.0	0.6	40.0	1.3	0.9	17.8	19.2	0.0	0.0	0.0	0.0	0.0013	0.0020	1003	-	N	2.10

Notes:

APPENDIX 12 - Generalised Ground Model



GROUNDTECH
CONSULTING



CLIENT
ALDI STORES LIMITED

PROJECT TITLE
AFAN WAY, PORT TALBOT

PLAN TITLE
GENERALISED GROUND MODEL

DATE
DECEMBER 2021

SCALE
NTS

PLAN NUMBER
GRD-21252-P08

Rev.	Details	Date

Status

Preliminary

Draft

Issued

For Comment

Approved

Notes



APPENDIX 13 - Plate Load Test Results



Contract Number: 56030

Client Ref:

Report Date: **01-10-2021**

Client PO:

Client **Groundtech Consulting Limited**

**First Floor
Lloyd House
Orford Court
Greenfold Way
WN7 3XJ**

Contract Title: **Burrows Yard**

For the attention of: **Michael Berry**

Date Received: **01-10-2021**

Date Completed: **01-10-2021**

Test Description	Qty
Day rate to provide Technician and equipment including mobilisation but excluding provision of machine as kentledge (to be provided by others) & Determination of the vertical deformation and strength characteristics of soil by the plate loading test, using a 600 mm diameter steel plate. The test comprises 5 No. loading and 1 No. unloading cycles, as specified by the Client. As many tests are required by client that can be done in one day.	1
- * UKAS	

Notes: Observations and Interpretations are outside the UKAS Accreditation
* - denotes test included in laboratory scope of accreditation
- denotes test carried out by approved contractor
@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

Emma Sharp (Business Support Manager) - Paul Evans (Director) - Richard John (Quality/Technical Manager)

Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager) - Wayne Honey (Quality Assistant / Administrator / Health and Safety Coordinator)



Determination of the Vertical Deformation Tests BS
1377: Part 9: 1990 Clause 4.8

Contract Number

56030

Client Reference

0

Client

Groundtech Consulting Limited

Test Date

29/09/2021

Site Location

Burrows Yard

Test Location

PLT 1

Soil Description

Made Ground

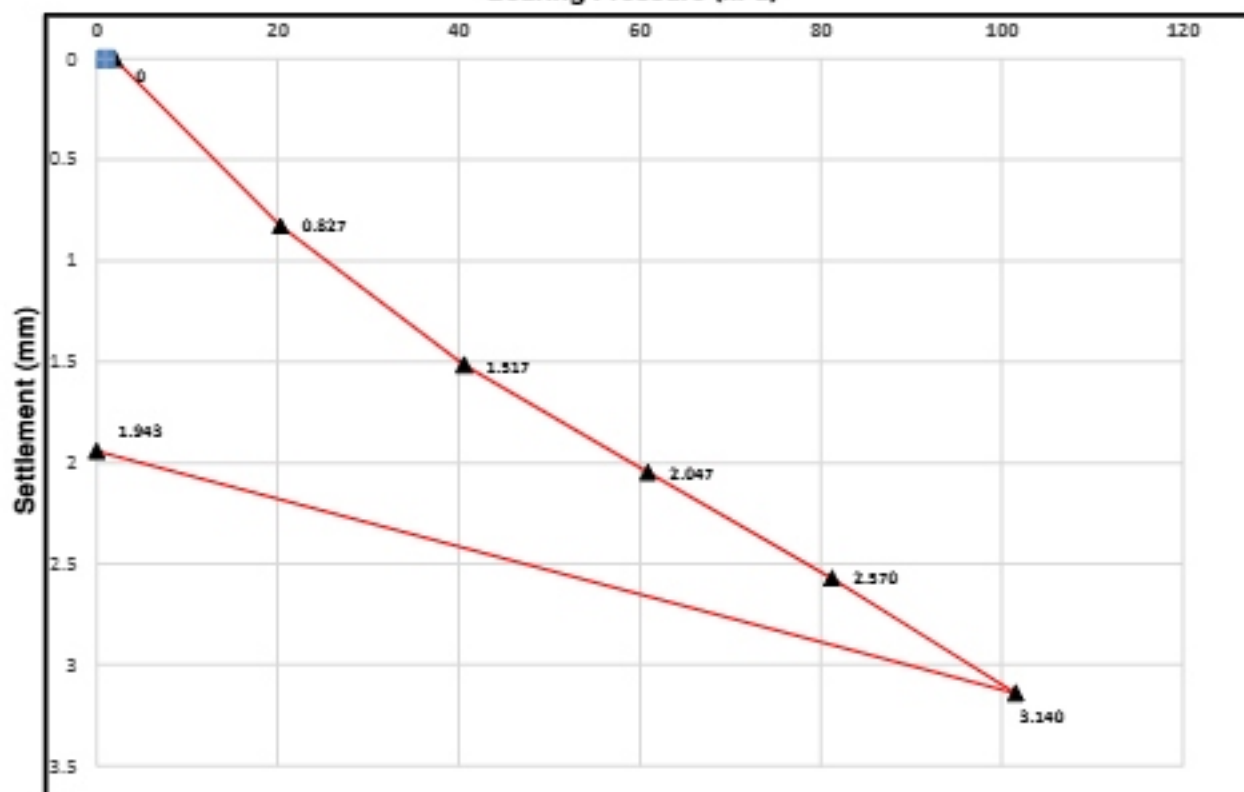
Test Depth (m)

GL

Kentledge Type

Tracked Excavator

Bearing Pressure (kPa)



Maximum Applied Pressure (kn/m²)

101.51

Maximum Deformation (mm)

3.14

Plate Area (m²)

0.28805

Assumed Poissons Ratio

0.25

Remarks

Test Operator

Checked and Authorised by

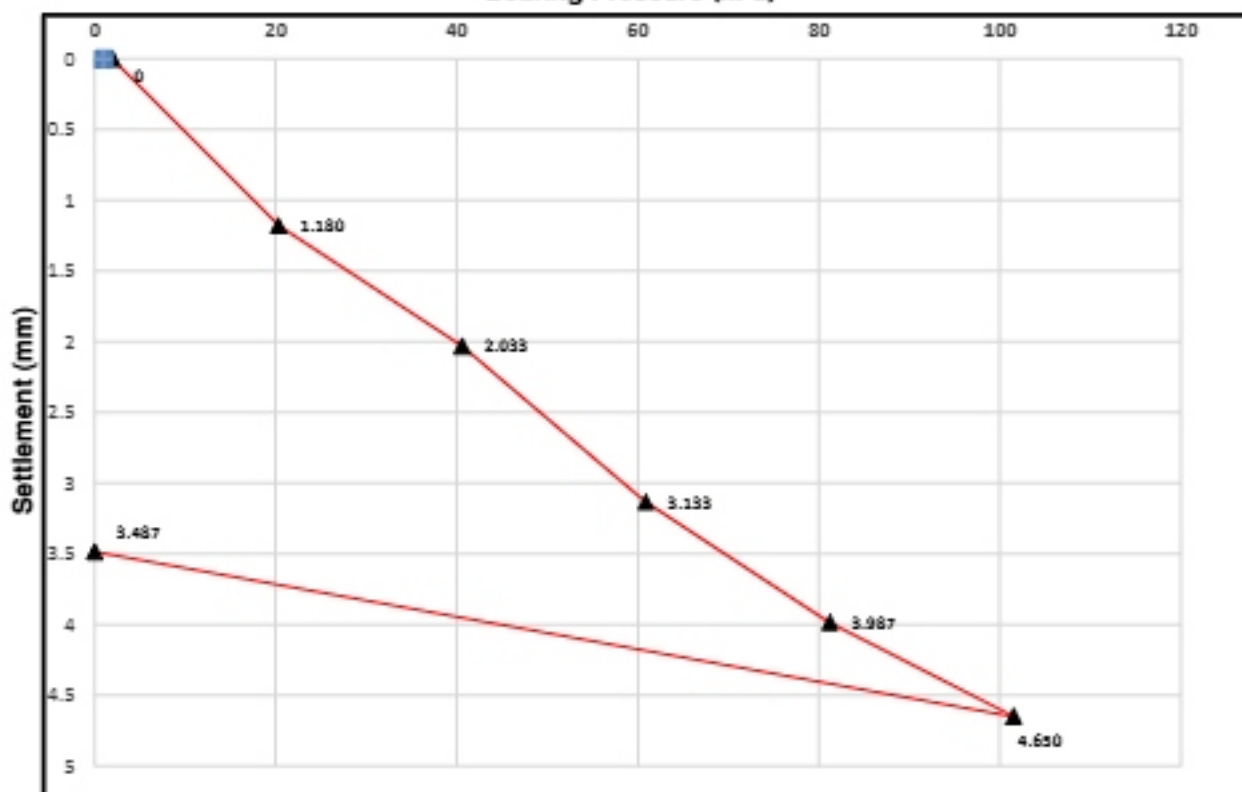
Shaun Thomas

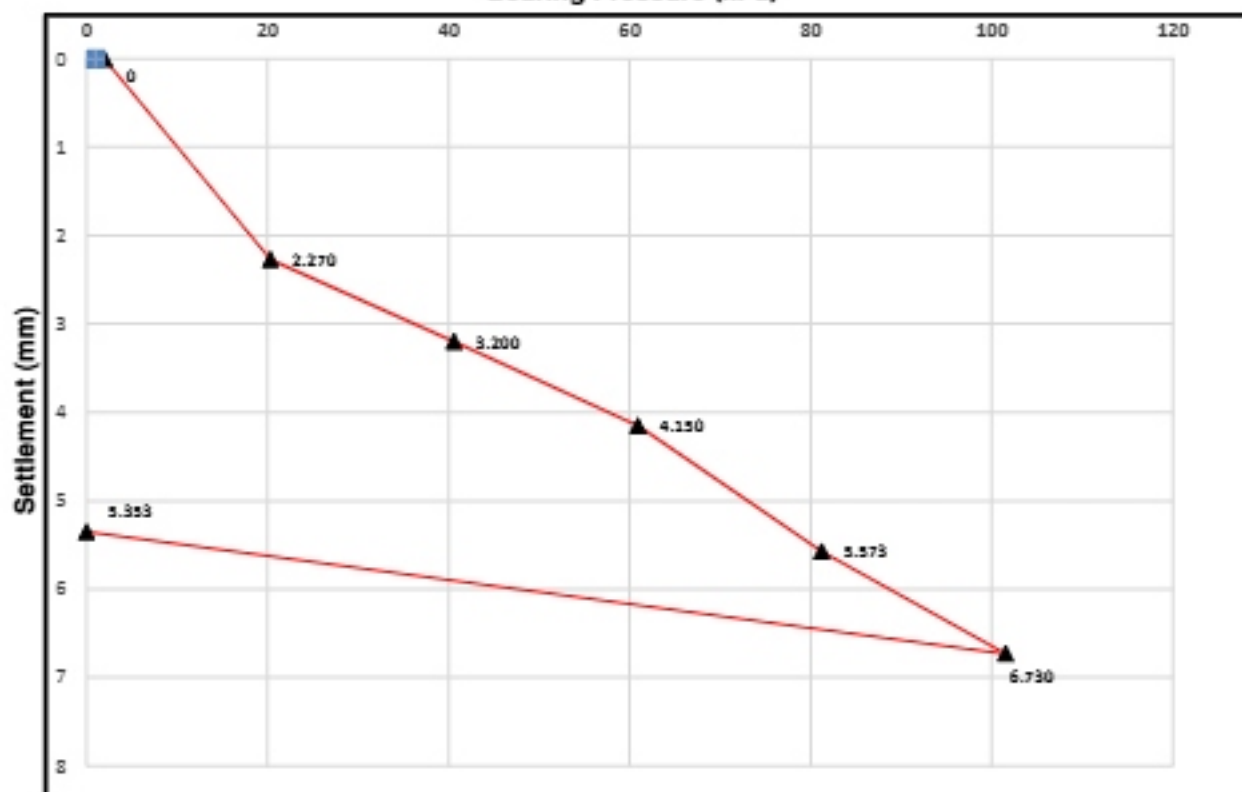
Shaun Thomas

Date

01/10/2021



Bearing Pressure (kPa)

Maximum Applied Pressure (kn/m2)
101.51
Maximum Deformation (mm)
4.65
Plate Area (m2)
0.28805
Assumed Poissons Ratio
0.25
Remarks
Test Operator
Checked and Authorised by
Shaun Thomas
Shaun Thomas
Date
01/10/2021

Bearing Pressure (kPa)


Maximum Applied Pressure (kn/m2)

101.51

Maximum Deformation (mm)

6.73

Plate Area (m2)

0.28805

Assumed Poissons Ratio

0.25

Remarks

Test Operator

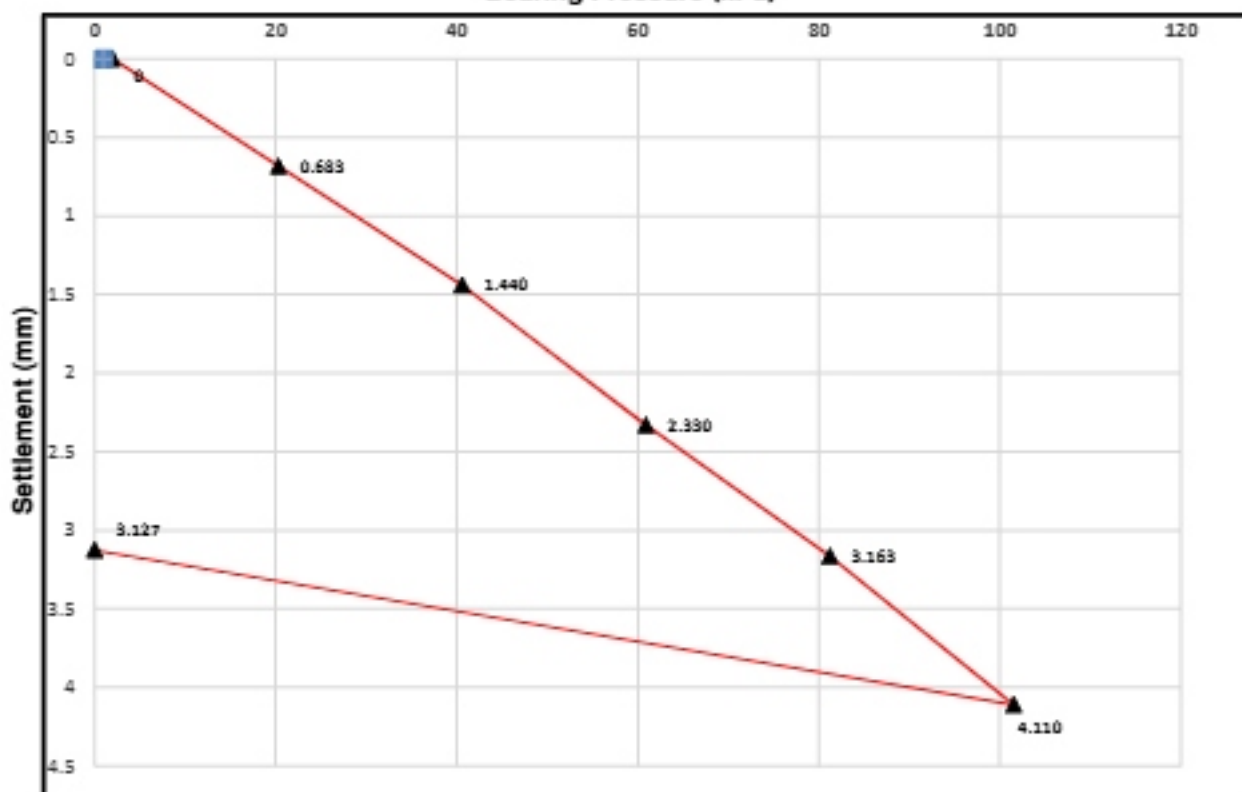
Checked and Authorised by

Shaun Thomas

Shaun Thomas

Date

01/10/2021

Bearing Pressure (kPa)


Maximum Applied Pressure (kn/m2)

101.51

Maximum Deformation (mm)

4.11

Plate Area (m2)

0.28805

Assumed Poissons Ratio

0.25

Remarks

Test Operator

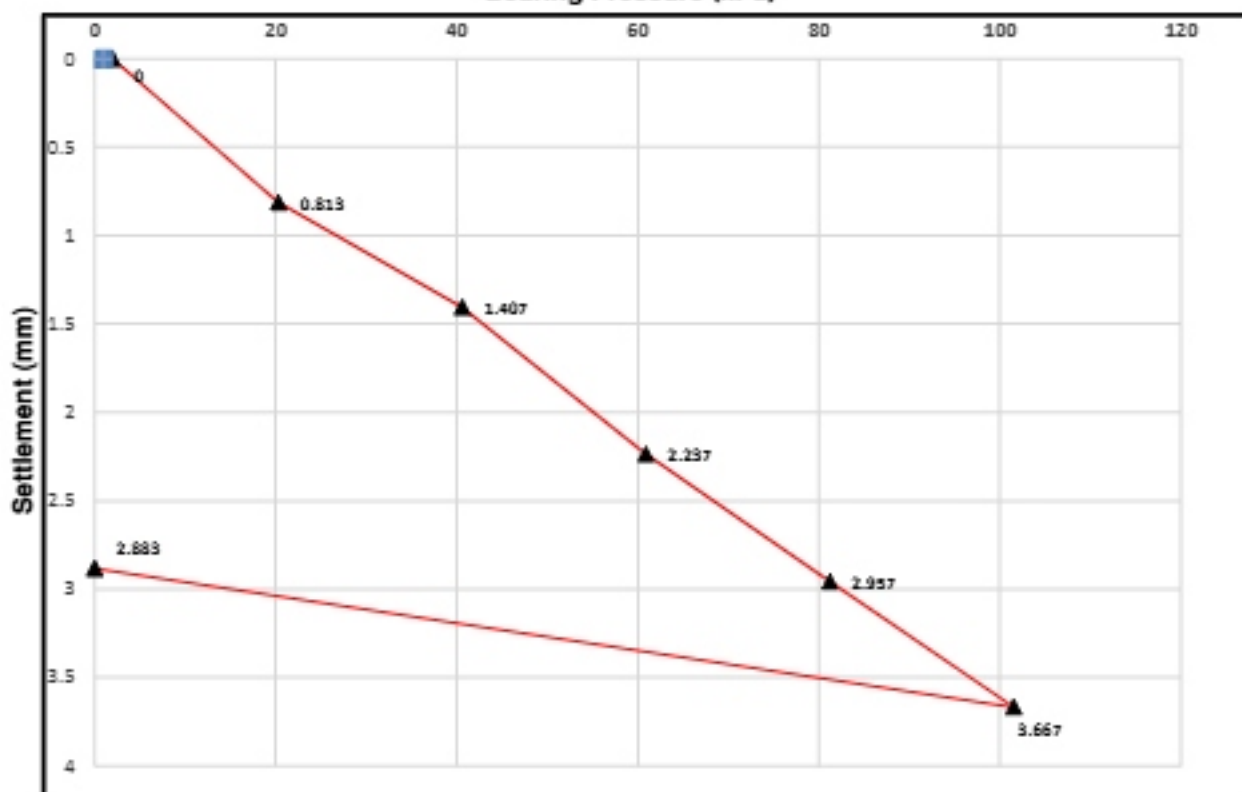
Checked and Authorised by

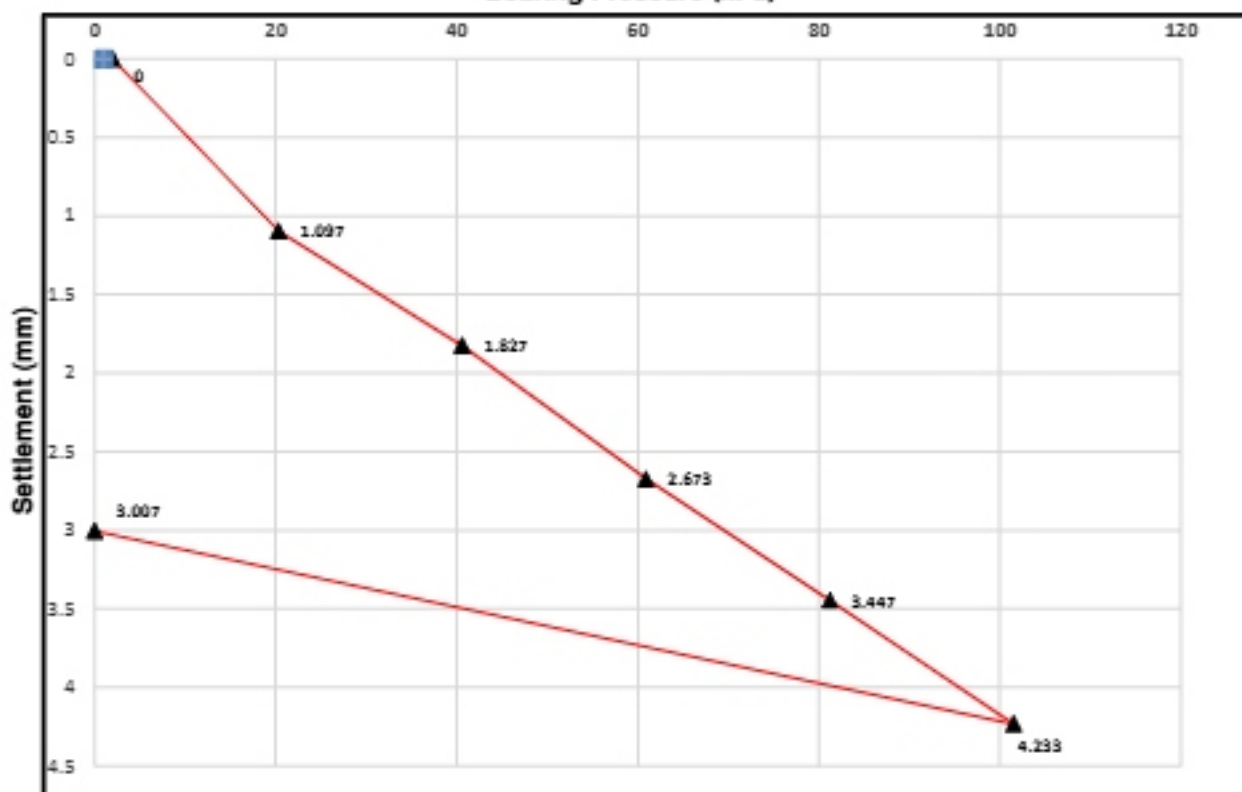
Shaun Thomas

Shaun Thomas

Date

01/10/2021

Bearing Pressure (kPa)

Maximum Applied Pressure (kn/m2)
101.51
Maximum Deformation (mm)
3.67
Plate Area (m2)
0.28805
Assumed Poissons Ratio
0.25
Remarks
Test Operator
Checked and Authorised by
Shaun Thomas
Shaun Thomas
Date
01/10/2021

Bearing Pressure (kPa)

Maximum Applied Pressure (kn/m2)
101.51
Maximum Deformation (mm)
4.23
Plate Area (m2)
0.28805
Assumed Poissons Ratio
0.25
Remarks
Test Operator
Checked and Authorised by
Shaun Thomas
Shaun Thomas
Date
01/10/2021

APPENDIX 14 - Generic Screening Values (Commercial)

Generic Tier 1 Generic Assessment Criteria (GAC)								GROUNDTECH CONSULTING
Proposed End Use	Unit	Residential with Plant Uptake			Commercial			Source
		1	2.5	5	1	2.5	5	
SDM	%	1	2.5	5	1	2.5	5	
Arsenic	mg/kg	22	22	22	540	540	540	SGVs
Beryllium	mg/kg	1.7	1.7	1.7	12	12	12	LOM/SAULs
Boron (water soluble)	mg/kg	290	290	290	240000	240000	240000	LOM/SAULs
Cadmium	mg/kg	30	30	30	220	220	220	SGVs
Chromium (Total)	mg/kg	910	910	910	5500	5500	5500	LOM/SAULs
Chromium (VI)	mg/kg	31	31	31	45	45	45	DEFA CASLs
Copper	mg/kg	2400	2400	2400	55000	55000	55000	LOM/SAULs
Lead	mg/kg	200	200	200	2200	2200	2200	DEFA CASLs
Organic Mercury	mg/kg	1.2	1.2	1.2	25	25	25	LOM/SAULs
Nickel	mg/kg	180	180	180	550	550	550	LOM/SAULs
Selenium	mg/kg	250	250	250	12000	12000	12000	SGVs
Vanadium	mg/kg	410	410	410	5000	5000	5000	LOM/SAULs
Zinc	mg/kg	2700	2700	2700	720000	720000	720000	LOM/SAULs
Aliphatic GC 5 - 6	mg/kg	42	75	150	2200 (res) **	5500 (res) **	12000 (res) **	LOM/SAULs
Aliphatic GC 6 - 8	mg/kg	100	220	520	7500 (res) **	17000 (res) **	40000 (res) **	LOM/SAULs
Aliphatic GC 9 - 10	mg/kg	27	55	150	2000 (res) **	4500 (res) **	11000 (res) **	LOM/SAULs
Aliphatic GC 10 - 12	mg/kg	120 (res) **	220 (res) **	750 (res) **	5700 (res) **	22000 (res) **	47000 (res) **	LOM/SAULs
Aliphatic GC 12 - 15	mg/kg	1100 (res) **	2400 (res) **	4200 (res) **	55000 (res) **	52000 (res) **	50000 (res) **	LOM/SAULs
Aliphatic GC 15 - 25	mg/kg	55000 (res) **	52000 (res) **	110000 /	1500000 /	1700000 /	1800000 /	LOM/SAULs
Aliphatic GC 25 - 44	mg/kg	55000 (res) **	52000 (res) **	110000 /	1500000 /	1700000 /	1800000 /	LOM/SAULs
Aromatic GC 5 - 7	mg/kg	70	140	200	25000 (res) **	45000 (res) **	55000 (res) **	LOM/SAULs
Aromatic GC 7 - 9	mg/kg	120	220	550	55000 (res) **	110000 (res) **	180000 (res) **	LOM/SAULs
Aromatic GC 9 - 10	mg/kg	24	55	150	2500 (res) **	5100 (res) **	17000 (res) **	LOM/SAULs
Aromatic GC 10 - 12	mg/kg	74	150	250	15000 (res) **	25000 (res) **	34000 (res) **	LOM/SAULs
Aromatic GC 12 - 15	mg/kg	140	220	550	25000 (res) **	27000	25000	LOM/SAULs
Aromatic GC 15 - 21	mg/kg	250 /	540 /	220 /	25000 /	25000 /	25000 /	LOM/SAULs
Aromatic GC 21 - 25	mg/kg	1100 /	1500 /	1700 /	25000 /	25000 /	25000 /	LOM/SAULs
Aromatic GC 25 - 44	mg/kg	1100 /	1500 /	1700 /	25000 /	25000 /	25000 /	LOM/SAULs
Benzene	mg/kg	0.22	0.22	0.22	55	55	55	SGVs
Toluene	mg/kg	510	510	510	4400	4400	4400	SGVs
Ethyl Benzene	mg/kg	250	250	250	2500	2500	2500	SGVs
Xylene - o	mg/kg	250	250	250	2500	2500	2500	SGVs
Xylene - m	mg/kg	240	240	240	2500	2500	2500	SGVs
Xylene - p	mg/kg	220	220	220	2200	2200	2200	SGVs
MTBE (methyl tert-butyl)	mg/kg	45	54	150	7500	12000	24000	CLAIRS 2010
Acenaphthene	mg/kg	210	510	1100	54000 (res) **	57000 (res) **	100000	LOM/SAULs
Acenaphthylene	mg/kg	170	420	920	52000 (res) **	57000 (res) **	100000	LOM/SAULs
Anthracene	mg/kg	2400	5400	11000	520000	540000	540000	LOM/SAULs
Benzo(a)anthracene	mg/kg	7.2	11	12	175	175	180	LOM/SAULs
Benzo(a)pyrene	mg/kg	2.2	2.7	5*	25	25	77*	DEFA CASL*/LOM
Benzo(b)fluoranthene	mg/kg	2.5	2.2	2.7	44	44	45	LOM/SAULs
Benzo(g,h)perylene	mg/kg	220	240	250	2500	4000	4000	LOM/SAULs
Benzo(k)fluoranthene	mg/kg	77	55	100	1200	1200	1200	LOM/SAULs
Chrysene	mg/kg	15	13	17	250	250	250	LOM/SAULs
Dibenz(a,h)anthracene	mg/kg	0.24	0.22	0.2	2.5	2.5	2.5	LOM/SAULs
Fluorene	mg/kg	250	550	890	22000	22000	22000	LOM/SAULs
Fluorene	mg/kg	170	400	850	52000 (res) **	55000	71000	LOM/SAULs
Indeno(1,2,3-cd)pyrene	mg/kg	27	25	41	500	510	510	LOM/SAULs
Naphthalene	mg/kg	2.2 /	5.5 /	12 /	150 / (res) **	450 / (res) **	1100 / (res) **	LOM/SAULs
Phenanthrene	mg/kg	55	220	440	22000	22000	22000	LOM/SAULs
Pyrene	mg/kg	520	1200	2000	54000	54000	54000	LOM/SAULs

Generic Tier 1 Generic Assessment Criteria (GAC)								GROUNDTECH CONSULTING	
Proposed End Use	Unit	Residential with Plant Uptake			Commercial			Source	
	%	1	2.5	5	1	2.5	5		
PCP	mg/kg	420	420	420	2200	2200	2200	SDGs	
Chlorophenol	mg/kg	0.67 *	2	4.5	2500	4000	4200	LOM S4ULs	
2,4-Dichlorophenol	mg/kg	0.22	0.52	1.1	400	400	400	LOM S4ULs	
Carbon disulphide	mg/kg	0.14	0.29	0.62	21	22	47	LOM S4ULs	
Hexachlorobutadiene	mg/kg	0.29	0.7	1.6	21	66	120	LOM S4ULs	
1,1,1,2-Tetrachloroethane	mg/kg	1.6	2.4	7.5	270	550	1100	LOM S4ULs	
1,1,1-Trichloroethane	mg/kg	6.8	16	29	660	1200	2000	LOM S4ULs	
Trichloroethene	mg/kg	0.016	0.024	0.075	1.2	2.6	5.7	LOM S4ULs	
Tetrachloroethene	mg/kg	0.026	0.059	0.12	2.6	6.2	14	LOM S4ULs	
1,2-Dichloroethene	mg/kg	0.0071	0.011	0.029	0.67	0.97	1.7	LOM S4ULs	
Chloroethane (Vinyl)	mg/kg	0.00064	0.00087	0.0014	0.059	0.077	0.12	LOM S4ULs	
Trichloromethane	mg/kg	0.61	1.7	2.4	99	170	280	LOM S4ULs	
Tetrachloroethane	mg/kg	0.18	0.29	0.9	19	42	95	LOM S4ULs	
Hexachlorobenzene	mg/kg	1.6 (a) **	2.2 (a) **	4.9	110 (a) **	120	120	LOM S4ULs	
2,4-Dichlorobenzene	mg/kg	5.6	11	22	640 (a) **	770 (a) **	820	LOM S4ULs	
1,2,4,5-Tetrachlorobenzene	mg/kg	0.22	0.77	1.6	42 (a) **	72 (a) **	95	LOM S4ULs	
1,2,3,5-Tetrachlorobenzene	mg/kg	0.66	1.66	2.7	49 (a) **	120 (a) **	240 (a) **	LOM S4ULs	
1,2,3,6-Tetrachlorobenzene	mg/kg	15	26	79	1700 (a) **	2080 (a) **	4400 (a) **	LOM S4ULs	
1,2,5-Trichlorobenzene	mg/kg	0.22	0.61	1.6	22	55	120	LOM S4ULs	
1,3,4-Trichlorobenzene	mg/kg	2.6	6.4	15	220	520	1200	LOM S4ULs	
1,3,5-Trichlorobenzene	mg/kg	1.5	2.6	6.6	102	250	590	LOM S4ULs	
1,4-dichlorobenzene	mg/kg	61 /	150 /	280 /	4400 / (a) **	10000 / (a) **	25000 / (a) **	LOM S4ULs	
1,2-dichlorobenzene	mg/kg	0.4	1	2.2	20	72	170	LOM S4ULs	
1,3-dichlorobenzene	mg/kg	22	55	120	2000 (a) **	4800 (a) **	11000 (a) **	LOM S4ULs	
Chlorobenzene	mg/kg	0.46	1	2.4	56	120	290	LOM S4ULs	
Gamma-	mg/kg	0.06	0.14	0.22	67	69	70	LOM S4ULs	
Beta-	mg/kg	0.025	0.1	0.46	65	65	65	LOM S4ULs	
Alpha-	mg/kg	0.22	0.55	1.2	170	180	180	LOM S4ULs	
Beta-Endosulfen	mg/kg	7	17	29	6200 (a) **	7800 (a) **	8700	LOM S4ULs	
Alpha-Endosulfen	mg/kg	7.4	18	41	5600 (a) **	7400 (a) **	8400 (a) **	LOM S4ULs	
Dichlorvos	mg/kg	0.022	0.059	0.14	140	140	140	LOM S4ULs	
Azinphos	mg/kg	2.2	7.6	17.4	9200	9400	9400	LOM S4ULs	
Dieldrin	mg/kg	0.27	2	2.5	170	170	170	LOM S4ULs	
Alachlor	mg/kg	5.7	6.6	7.1	170	170	170	LOM S4ULs	
WVK	mg/kg	5.7	12	26	110000	110000	110000	LOM S4ULs	
2,4,6-Trinitrobenzene	mg/kg	1.6	2.7	6.1	1000	1000	1000	LOM S4ULs	
DDT	mg/kg	120	250	540	210000	210000	210000	LOM S4ULs	

** DCL exceeds the sensitivity saturation limit (if not is presented in brackets)

** DCL presented exceeds the vapour saturation limit, if not is presented in brackets

For methylphenols, the DCL is based on a comparison of inhalation exposure with the TD₀₁ for localized effects

DCL based on comparison of inhalation exposure with inhalation TD for localized effects

DCL based on a threshold reference dose (in mg/kg bw/day) for phenol/glycoline in brackets based on the effects following long term exposure provided for inhalation only

APPENDIX 15 - JIWG Receptor Decision Tool

Decision Support Tool for Receptor Risk Ranking

Stage 1		Score
Hazard Identification		
Select ACM type (run model for each type to generate 'Worst Case' output)	Loose fibrous asbestos debris	2
Extent of degradation of ACMs	Disaggregated (dominated by loose fibrous material); extreme degradation in ACM and/or free asbestos fibres/fibre bundles	4
Integrity and degree of bonding by matrix (ACM matrix, not ground materials)	Friable ACM or ACM with fibres not firmly linked in a matrix	2
Distribution of Visible Asbestos Across Affected Area	Occasional/random occurrences of visible contamination by ACMs	1
Asbestos fibre type	Mainly amphibole and chrysotile mixtures, including trace crocidolite	2
Sub-total		12
Hazard ranking		Medium

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.

It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.

Stage 2		Score	
Emission Factors			
Amount of asbestos fibre in selected ACM/Fibre type as % of host material	Low quantities - >0.05 to <0.05 Nwt/wt	2	
Respirable fibre Index for ACM - RIVM report 711701094 (2003)	Low	2	
Activity type and effect on deterioration of ACMs	Moderate disturbance, slight deterioration expected	2	
Best description of primary host material matrix	Coarse to Fine Gravel	2	
Sub-total		10	
Exposure ranking			Medium

Stage 2		Score	
Pathway and Receptor Sensitivity			
Receptor category	Construction	No score required	
Age of Receptor	Infant (under 2)	4	
Duration of exposure/site occupancy	> 1hr <10 hr daily exposure (e.g. part-time to full time occupational exposure or extended daily recreational exposure)	3	
Receptor ranking		7	High
Combined hazard, exposure and receptor ranking			Medium
Pathway: Distance of Receptor from Source	In or within 10m of area of disturbance	4	
Pathway: Depth to impacted material	Material buried at shallow depth, potential to be disturbed by excavation	C	
Pathway ranking		6C	Low
Overall ranking			Low

Project Reference	GRO-211252
Site Name	SAVAN WAY, PORT TILLOT
Client	
Run by	CAMERON WELLS
Date	02-Dec-21
Reviewed by	
Characterisation of scenario being evaluated	
Interpretation of scenario ranking by DST	

Project Reference	GRO-01050
Site Name	ARAN WAY, PORT TALBOT
Client	
Run by	CAMERON WALLACE
Date	03-Dec-20
Scenario details	

Decision Support Tool for CAR2012 Work Categories

Stage 1		Score
Hazard Factors		
Select ACM type (run model for each type to generate 'Worst Case' output)	Loose fibrous asbestos debris	2
Extent of degradation of ACMs at outset of work	Disaggregated (dominated by loose fibrous material); extreme degradation in ACM and/or free asbestos fibres/fibre bundles	4
Friability and degree of bonding by matrix (ACM matrix, not ground materials)	Friable ACM or ACM with fibres not linked in any matrix (free dispersed fibres/fibre bundles)	4
Distribution of Visible Asbestos Across Affected Area	Occasional/random occurrences of visible contamination by ACMs	1
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Low quantities - >0.05 to <0.05 fibres/vol	2
Sub-total		14
Note: the asbestos licensing regime is unaffected by the type of asbestos fibre present in ACMs		
Hazard ranking		Medium

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.

It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.

Stage 2		Score
Exposure Factors		
Anticipated airborne fibre concentration - Control Limit or SALIT	<0.005 fibres/ml	0
Anticipated duration of exposure to asbestos	> 2 hours in a 7 day period and Up to 10 hours in a day (e.g. full time occupational exposure)	4
Activity type and effect on deterioration of ACMs during work	Low Intensity, no or minimal deterioration expected	0
Best description of primary host material matrix (soil/made ground)	Coarse to Fine Gravel	2
Respirable fibre Index for ACM - RIVM report 711700094 (2009)	Medium	2
Sub-total		10
Exposure ranking		Low
Combined hazard and exposure ranking		24 Medium

Stage 3

Risk Assessment Outputs

Probable Licensing Status	Non-Licensed Work
RPE*	EN150 type RPE disposable
Dust Suppression**	Manual/localised dust suppression
Hygiene/Decontamination***	Localised and basic personal decontamination facilities

*Where RPE has to be worn continuously for long periods (e.g. more than 8-hour), then powered RPE may be necessary.

**Reduction in control measures possible if natural mitigation factors are present (e.g. raining, wet ground)

***Guide only; suitability of selected personal hygiene measures may be reviewed on a site/contamination-specific basis

APPENDIX 16 - Waste Classification 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)



V0992-COF6B-8W27V

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

Job name

21-17040_HWOL_Results[2]

Description/Comments

Project

GRO-21252

Site

Port Talbot

Classified by

Name:
James Doyle

Date:
10 Dec 2021 10:09 GMT
Telephone:
0800 1613730

Company:
Groundtech Consulting Limited
PO Box 499 Salford, Manchester M28 8EE

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

HazWasteOnline™ Certification:

Course
Hazardous Waste Classification

-
Date
50% complete

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP01—2.50		Non Hazardous		2
2	TP02—0.30		Hazardous	HP 7	7
3	TP03—1.00		Hazardous	HP 7, HP 14	10
4	TP05—0.50		Hazardous	HP 7, HP 14	13
5	TP05—3.00		Non Hazardous		16
6	TP06—1.60		Hazardous	HP 7, HP 14	22
7	TP07—1.20		Non Hazardous		25
8	TP07—0.25		Hazardous	HP 7	30
9	TP08—1.20		Non Hazardous		33
10	TP08—1.60		Non Hazardous		39
11	TP09—0.50		Non Hazardous		41
12	TP10—0.60		Hazardous	HP 7	43
13	WS05—0.10		Hazardous	HP 7, HP 14	49
14	WS06—0.90		Hazardous	HP 7	52
15	TP15—1.00		Hazardous	HP 7	54

Related documents

#	Name	Description
1	21-17040_HWOL_Results.hwol[3]	.hwol[3] file used to create the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: James Doyle

Created date: 10 Dec 2021 10:09 GMT

Appendices

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Appendix A: Classifier defined and non CLP determinands	56
Appendix B: Rationale for selection of metal species	60
Appendix C: Version	60

Classification of sample: TP01—2.50

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

Sample details

Sample name:	LoW Code:
TP01—2.50	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
19%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				<20 mg/kg		<20	mg/kg	<0.002 %		<LOD
			TPH								
2	1,1,1-trichloro-2-methyl-2-propyl ether, MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-0	108-88-3								
5	ethylbenzene				<0.001 mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
6	xylene				<0.004 mg/kg		<0.004	mg/kg	<0.0000004 %		<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]								
7	naphthalene				<0.0001 mg/kg		<0.0001	mg/kg	<0.00000001 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
8	acenaphthylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8								
9	acenaphthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9								
10	fluorene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	96-73-7								
11	phenanthrene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8								
12	anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7								
13	fluoranthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0								
14	pyrene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0								
15	benzo(a)anthracene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
16	chrysene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
17	benzo(b)fluoranthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
18	benzo[k]fluoranthene				-0.05 mg/kg		-0.05 mg/kg	<0.000005 %		<LOD
	601-035-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				-0.05 mg/kg		-0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
20	indeno[1,2,3-cd]pyrene				-0.05 mg/kg		-0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	693-39-5							
21	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							
22	benzo[ghi]perylene				-0.05 mg/kg		-0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	691-24-2							
23	phenol				-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
24	1,1-dichloroethane and 1,2-dichloroethane (combined)				-0.002 mg/kg		-0.002 mg/kg	<0.0000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
25	isotrachloroethylene				-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
	602-028-00-4	204-825-9	627-18-4							
26	carbon tetrachloride; tetrachloromethane				-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
27	trichloroethylene; trichloroethene				-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
28	vinyl chloride; chloroethylene				-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
29	hexachlorobenzene				-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
30	aniline				-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
31	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-0 [2] 108-43-0 [3] 25167-80-0 [4]							
32	bis(2-chloroethyl) ether				-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
33	hexachloroethane				-0.05 mg/kg		-0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	57-72-1							
34	nitrobenzene				-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
35	3,5,5-trimethylcyclohex-2-enone; isophorone				-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
36	2-nitrophenol				-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
37	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
38	bis(2-chloroethoxy)methane				-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
		203-920-2	111-91-1							
39	2,4-dichlorophenol				-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
40	4-chloroaniline				-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	105-47-8							
41	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
42	2,4,6-trichlorophenol				-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	M/C Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
43	2,4,5-Trichlorophenol 604-017-00-X	202-467-8	95-95-4		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
44	2-methyl naphthalene 202-078-3	91-57-6			-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
45	2-chloronaphthalene 202-079-9	91-58-7			-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
46	dimethyl phthalate 205-011-6	131-11-3			-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
47	2,6-dinitrotoluene 609-049-00-3	210-106-0	206-20-2		-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
48	2,4-dinitrotoluene; [1] dinitrotoluene [2] 609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
49	dibenzofuran 205-071-3	132-64-9			-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
50	4-chlorophenylphenylether 230-281-7	7005-72-3			-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
51	diethyl phthalate 201-550-6	84-66-2			-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
52	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3] 612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-3 [2] 100-01-6 [3]		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
53	azobenzene 611-001-00-6	203-102-5	103-33-3		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
54	4-bromophenylphenylether 202-052-4	101-55-3			-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
55	carbazole 201-696-0	86-74-8			-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
56	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
57	anthraquinone 606-151-00-4	201-549-0	84-65-1		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
58	BBP; benzyl butyl phthalate 607-430-00-3	201-622-7	85-68-7		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
59	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
60	1,1,2,2-tetrachloroethane 602-015-00-3	201-197-8	79-34-5		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
61	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
62	1,1-dichloroethylene; vinylidene chloride 602-025-00-3	200-864-0	75-35-4		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
63	1,1-dichloropropene 602-031-00-0	200-253-3	563-58-6		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
64	1,2,3-trichlorobenzene 201-757-1	87-61-6			-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
65	1,2,4-trimethylbenzene 601-043-00-3	202-436-9	95-63-6		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
66	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
67	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7	202-425-9	95-50-1		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
68	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
69	1,3-dichlorobenzene 602-067-00-7	208-792-1	541-73-1		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
70	1,3-dichloropropane 205-531-3	143-28-9			-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
71	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2 203-400-5 606-46-7				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	2,2-dichloropropane 209-332-0 504-20-7				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	bromodichloromethane 200-856-7 675-27-4				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	bromomethane; methylbromide 602-002-00-2 200-813-2 74-83-9				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
75	bromobenzene 602-060-00-9 203-623-8 608-86-1				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
76	n-butylbenzene 203-209-7 604-51-8				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
77	1,3-dichloropropane; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5 208-826-5 [1] 542-75-6 [1] 233-195-8 [2] 60061-01-5 [2]				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
78	chlorobenzene 602-033-00-1 203-628-5 608-90-7				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
79	chloroethane 602-009-00-0 200-830-5 75-00-3				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
80	chloroform; trichloromethane 602-005-00-4 200-663-8 67-66-3				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
81	chloromethane; methyl chloride 602-001-00-7 200-817-4 74-87-3				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
82	dibromochloromethane 204-704-0 624-48-1				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
83	1,2-dibromo-3-chloropropane 602-021-00-6 202-479-3 66-12-8				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
84	dibromomethane 602-003-00-8 200-824-2 74-95-3				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
85	hexachlorobutadiene 201-765-5 87-68-3				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
86	4-isopropyltoluene 202-796-7 60-87-6				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
87	sec-butylbenzene 205-227-0 635-98-8				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
88	styrene 601-026-00-0 202-851-5 600-42-5				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
89	trans-1,3-dichloropropene 431-460-4 60061-02-6				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
90	tert-butylbenzene 202-632-4 68-96-6				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
91	bromoform; tribromomethane 602-007-00-X 200-854-6 75-25-2				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
92	1,2,4-trichlorobenzene 602-087-00-6 204-428-0 620-82-1				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
93	1,1,1,2-tetrachloroethane 211-135-1 630-20-6				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
94	trichlorofluoromethane 200-892-3 75-69-4				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
95	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5 203-604-4 608-67-8				-0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
96	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9 203-577-9 [1] 608-39-4 [1] 202-423-8 [2] 95-48-7 [2] 203-398-6 [3] 106-44-5 [3] 215-293-2 [4] 6319-77-3 [4]				-0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
97	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4] 602-040-00-X 202-434-3 [1] 95-49-8 [1] 203-580-5 [2] 608-41-8 [2]				-0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used	
	CLP Index number	EC Number	CAS Number								
		203-307-0 [3] 246-608-2 [4]	106-43-4 [3] 25168-05-2 [4]								
98	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %	<LOD	
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]								
99	cumene; [1] propylbenzene [2]						<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %	<LOD
	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]								
Total:								0.00275 %			

Key

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

Classification of sample: TP02—0.30

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

Sample details

Sample name:	LoW Code:
TP02—0.30	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
10% (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 determinant:

zinc chromate: (compound conc.: 0.147%)

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number								
1	arsenic [arsenic trioxide]				47 mg/kg	1.32	55.85 mg/kg	0.00558 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
2	boron [diboron trioxide; boric oxide]				2.8 mg/kg	3.22	8.114 mg/kg	0.000811 %		✓	
	005-008-00-8	215-125-8	1303-86-2								
3	cadmium [cadmium oxide]				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds [chromium(III) oxide (worst case)]				46 mg/kg	1.462	60.508 mg/kg	0.00605 %		✓	
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds [chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex]				<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %			<LOD
	024-017-00-8										
6	copper [dicopper oxide; copper (I) oxide]				910 mg/kg	1.126	922.103 mg/kg	0.0922 %		✓	
	029-002-00-X	215-270-7	1317-39-1								
7	lead [lead chromate]			1	730 mg/kg	1.56	1024.799 mg/kg	0.0657 %		✓	
	082-004-00-2	231-846-0	1758-97-6								
8	mercury [mercury dichloride]				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.000406 %			<LOD
	080-010-00-X	231-299-8	1487-94-7								
9	nickel [nickel chromate]				57 mg/kg	2.976	152.682 mg/kg	0.0153 %		✓	
	028-035-00-7	238-766-5	14721-18-7								
10	selenium [nickel selenate]				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc [zinc chromate]				590 mg/kg	2.774	1473.072 mg/kg	0.147 %		✓	
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group				330 mg/kg		297 mg/kg	0.0297 %		✓	
			TPH								
13	cyanides [salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,				58 mg/kg	1.884	98.345 mg/kg	0.00983 %		✓	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number									
	Isocyanides and mercuric oxycyanide and those specified elsewhere in this Annex]											
	005-007-00-5											
14	pH				9	pH		9	pH	9pH		
15	naphthalene	201-052-00-2	202-049-5	91-20-3	<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
16	acenaphthylene	205-017-1	208-96-8		1.3	mg/kg		1.17	mg/kg	0.000117 %	✓	
17	acenaphthene	201-469-6	83-32-9		2.3	mg/kg		2.07	mg/kg	0.000207 %	✓	
18	fluorene	201-695-5	96-73-7		2.9	mg/kg		2.61	mg/kg	0.000261 %	✓	
19	phenanthrene	201-581-5	85-01-8		19	mg/kg		17.1	mg/kg	0.00171 %	✓	
20	anthracene	204-371-1	120-12-7		6.1	mg/kg		5.49	mg/kg	0.000549 %	✓	
21	fluoranthene	205-012-4	206-44-0		46	mg/kg		41.4	mg/kg	0.00414 %	✓	
22	pyrene	204-927-3	129-00-0		36	mg/kg		32.4	mg/kg	0.00324 %	✓	
23	benzo[a]anthracene	201-033-00-9	200-280-6	56-55-3	35	mg/kg		31.5	mg/kg	0.00315 %	✓	
24	chrysene	201-048-00-0	205-023-4	218-01-9	29	mg/kg		26.1	mg/kg	0.00261 %	✓	
25	benzo[b]fluoranthene	201-034-00-4	205-011-9	205-90-2	21	mg/kg		18.9	mg/kg	0.00189 %	✓	
26	benzo[k]fluoranthene	201-036-00-5	205-016-6	207-08-9	16	mg/kg		14.4	mg/kg	0.00144 %	✓	
27	benzo[a]pyrene; benzo[de]chrysene	201-032-00-3	200-028-5	50-32-8	16	mg/kg		14.4	mg/kg	0.00144 %	✓	
28	indeno[1,2,3-cd]pyrene	205-893-2	193-39-5		9.5	mg/kg		8.55	mg/kg	0.000855 %	✓	
29	dibenz[a,h]anthracene	201-041-00-2	200-181-8	53-70-3	3.9	mg/kg		3.51	mg/kg	0.000351 %	✓	
30	benzo[ghi]perylene	205-883-8	191-24-2		9.6	mg/kg		8.64	mg/kg	0.000864 %	✓	
31	monochloric phenols		P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-68-4 77536-68-6 77536-67-5 12001-29-5		30	mg/kg		27	mg/kg	0.0027 %	✓	
Total										0.399 %		

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)
- Specialised 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 because Not present in free phase

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0297%)

Classification of sample: TP03—1.00

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

Sample details

Sample name:	LoW Code:
TP03—1.00	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
15% (wet weight correction)	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

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:

zinc chromate: (compound conc.: 0.542%)

Carc. 1B; 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 chromate: (Note 1 conc.: 0.119%)

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 chromate: (Note 1 conc.: 0.119%)

zinc chromate: (compound conc.: 0.542%)

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	CLP Index number	EC Number	CAS Number	CLP Name	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic [arsenic trioxide]	033-003-00-0	215-481-4	1327-53-3		29 mg/kg	1.32	32.546 mg/kg	0.00325 %	✓	
2	boron [diboron trioxide; boric oxide]	005-008-00-8	215-125-8	1303-85-2		0.8 mg/kg	3.22	2.19 mg/kg	0.000219 %	✓	
3	cadmium [cadmium oxide]	048-002-00-0	215-146-2	1305-19-0		5 mg/kg	1.142	4.855 mg/kg	0.000485 %	✓	
4	chromium in chromium(III) compounds [chromium(III) oxide (worst case)]		215-160-0	1308-38-0		15 mg/kg	1.462	18.635 mg/kg	0.00186 %	✓	
5	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				<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<LOD
6	copper [dicopper oxide; copper (II) oxide]	029-002-00-X	215-270-7	1317-39-1		360 mg/kg	1.126	344.522 mg/kg	0.0345 %	✓	
7	lead [lead chromate]	082-004-00-2	231-846-0	17758-97-6	1	1400 mg/kg	1.56	1856.18 mg/kg	0.119 %	✓	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
8	mercury (mercury dichloride) 080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.000406 %		<LOD
9	nickel (nickel chromate) 028-035-00-7	238-766-5	64721-18-7		41 mg/kg	2.976	103.723 mg/kg	0.0104 %	✓	
10	selenium (nickel selenate) 028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
11	zinc (zinc chromate) 024-007-00-3	236-878-9	13530-65-9		2300 mg/kg	2.774	5423.456 mg/kg	0.542 %	✓	
12	TPH (C6 to C40) petroleum group TPH				44 mg/kg		37.4 mg/kg	0.00374 %	✓	
13	cyanides (salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric cyanide and those specified elsewhere in this Annex) 006-007-00-5				3.5 mg/kg	1.884	5.605 mg/kg	0.00056 %	✓	
14	pH PH				8 pH		8 pH	8pH		
15	naphthalene 601-052-00-2	202-049-5	91-20-3		0.61 mg/kg		0.519 mg/kg	0.0000519 %	✓	
16	acenaphthylene 005-017-1	208-96-8			0.45 mg/kg		0.383 mg/kg	0.0000383 %	✓	
17	acenaphthene 001-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	fluorene 001-695-5	86-73-7			0.57 mg/kg		0.484 mg/kg	0.0000484 %	✓	
19	phenanthrene 001-581-5	85-01-8			4.7 mg/kg		3.995 mg/kg	0.0004 %	✓	
20	anthracene 004-371-1	120-12-7			0.87 mg/kg		0.74 mg/kg	0.000074 %	✓	
21	fluoranthene 005-012-4	206-44-0			4.4 mg/kg		3.74 mg/kg	0.000374 %	✓	
22	pyrene 004-027-3	129-00-0			3.6 mg/kg		3.06 mg/kg	0.000306 %	✓	
23	benzo[a]anthracene 001-033-00-9	200-280-6	56-55-3		3.1 mg/kg		2.635 mg/kg	0.000263 %	✓	
24	chrysene 001-048-00-0	205-023-4	218-01-9		2.5 mg/kg		2.125 mg/kg	0.000213 %	✓	
25	benzo[b]fluoranthene 001-034-00-4	205-911-9	205-99-2		3.2 mg/kg		2.72 mg/kg	0.000272 %	✓	
26	benzo[k]fluoranthene 001-036-00-5	205-916-6	207-08-9		1.1 mg/kg		0.935 mg/kg	0.0000935 %	✓	
27	benzo[a]pyrene; benzo[def]chrysene 001-032-00-3	200-028-5	50-32-8		2.6 mg/kg		2.21 mg/kg	0.000221 %	✓	
28	indeno[1,2,3-cd]pyrene 005-803-2	193-39-5			2.5 mg/kg		2.125 mg/kg	0.000213 %	✓	
29	dibenz[a,h]anthracene 001-041-00-2	200-181-8	53-70-3		0.6 mg/kg		0.51 mg/kg	0.000051 %	✓	
30	benzo[ghi]perylene 005-883-8	191-24-2			2.7 mg/kg		2.295 mg/kg	0.00023 %	✓	
31	monohydric phenols P1186				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total								0.72 %		

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)
	Specialized 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 because Not present in free phase

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00374%)

Classification of sample: TP05—0.50

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

Sample details

Sample name:	LoW Code:
TP05—0.50	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
19% (wet weight correction)	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

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 determinant:

zinc chromate: (compound conc.: 0.404%)

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 determinant:

zinc chromate: (compound conc.: 0.404%)

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic (arsenic trioxide)				45	mg/kg	1.32	48.126	mg/kg	0.00481 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron (diboron trioxide; boric oxide)				1.2	mg/kg	3.22	3.13	mg/kg	0.000313 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium (cadmium oxide)				2.1	mg/kg	1.142	1.943	mg/kg	0.000194 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds (chromium(III) oxide (worst case))				20	mg/kg	1.462	23.677	mg/kg	0.00237 %	✓	
		215-160-0	1308-38-0									
5	chromium in chromium(VI) compounds (chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex)				<4	mg/kg	2.27	<9.08	mg/kg	<0.000908 %		<LOD
	024-017-00-8											
6	copper (dicopper oxide; copper (I) oxide)				180	mg/kg	1.126	164.155	mg/kg	0.0164 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead (lead chromate)			1	300	mg/kg	1.56	379.035	mg/kg	0.0243 %	✓	
	082-004-00-2	231-846-0	1758-97-6									
8	mercury (mercury dichloride)				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.000406 %		<LOD
	080-010-00-X	231-299-8	1487-94-7									
9	nickel (nickel chromate)				31	mg/kg	2.976	74.734	mg/kg	0.00747 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
10	selenium (nickel selenate)				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number									
11	zinc [zinc chromate]				1800	mg/kg	2.774	4044.706	mg/kg	0.404 %	✓	
	024-007-00-3	236-878-9	13530-85-9									
12	TPH (C6 to C40) petroleum group				25	mg/kg		20.25	mg/kg	0.00202 %	✓	
			TPH									
13	cyanides [salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex]				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
14	pH				8.3	pH		8.3	pH	8.3 pH		
			pH									
15	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
16	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	205-017-1	208-96-8										
17	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	201-469-6	83-32-9										
18	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	201-695-5	96-73-7										
19	phenanthrene				1.5	mg/kg		1.215	mg/kg	0.000122 %	✓	
	201-581-5	85-01-8										
20	anthracene				0.37	mg/kg		0.3	mg/kg	0.00003 %	✓	
	204-371-1	120-12-7										
21	fluoranthene				3	mg/kg		2.43	mg/kg	0.000243 %	✓	
	205-912-4	206-44-0										
22	pyrene				2.7	mg/kg		2.187	mg/kg	0.000219 %	✓	
	204-927-3	129-00-0										
23	benzo[a]anthracene				2.1	mg/kg		1.701	mg/kg	0.00017 %	✓	
	601-033-00-9	200-290-6	56-55-3									
24	chrysene				1.8	mg/kg		1.458	mg/kg	0.000146 %	✓	
	601-048-00-0	205-023-4	218-01-9									
25	benzo[b]fluoranthene				1.9	mg/kg		1.539	mg/kg	0.000154 %	✓	
	601-034-00-4	205-911-9	205-99-2									
26	benzo[k]fluoranthene				1.2	mg/kg		0.972	mg/kg	0.0000972 %	✓	
	601-036-00-5	205-916-6	207-08-9									
27	benzo[a]pyrene; benzo[def]chrysene				1.5	mg/kg		1.215	mg/kg	0.000122 %	✓	
	601-032-00-3	200-028-5	50-32-8									
28	indeno[123-cd]pyrene				1.3	mg/kg		1.053	mg/kg	0.000105 %	✓	
	205-893-2	193-39-5										
29	dibenz[a,h]anthracene				0.42	mg/kg		0.34	mg/kg	0.000034 %	✓	
	601-041-00-2	200-181-8	53-70-3									
30	benzo[ghi]perylene				1.3	mg/kg		1.053	mg/kg	0.000105 %	✓	
	205-883-8	191-24-2										
31	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			P1186									
Total:										0.465 %		

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)
- Specialised 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 because Not present in free phase

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00202%)

Classification of sample: TP05—3.00

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

Sample details

Sample name:	LoW Code:
TP05—3.00	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
21%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number								
1	arsenic [arsenic trioxide]				9.9 mg/kg	1.32	10.326 mg/kg	0.00103 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	boron [diboron trioxide; boric oxide]				1.7 mg/kg	3.22	4.324 mg/kg	0.000432 %	✓		
	005-008-00-8	215-125-8	1303-85-2								
3	cadmium [cadmium oxide]				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-145-2	1305-19-0								
4	chromium in chromium(III) compounds [chromium(III) oxide (worst case)]				19 mg/kg	1.462	21.938 mg/kg	0.00219 %	✓		
		215-160-0	1308-38-0								
5	chromium in chromium(VI) compounds [chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex]				<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %			<LOD
	024-017-00-8										
6	copper [dicopper oxide; copper (II) oxide]				16 mg/kg	1.126	14.231 mg/kg	0.00142 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
7	lead [lead chromate]			1	15 mg/kg	1.56	18.484 mg/kg	0.00119 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury [mercury dichloride]				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel [nickel chromate]				30 mg/kg	2.976	70.537 mg/kg	0.00705 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium [nickel selenate]				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc [zinc chromate]				89 mg/kg	2.774	195.05 mg/kg	0.0195 %	✓		
	024-007-00-3	238-878-0	13530-65-0								
12	TPH (C6 to C40) petroleum group				910 mg/kg		718.9 mg/kg	0.0719 %	✓		
			TPH								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	003-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	001-020-00-8	200-753-7	71-43-2								
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	001-021-00-3	203-625-0	108-88-3								
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	001-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
17	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	65-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
18	cyanides (salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric dicyanide and those specified elsewhere in this Annex) 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
19	pH		PH		6.4 pH		6.4 pH	6.4 pH		
20	naphthalene 601-052-00-2	202-040-5	81-20-3		<0.0001 mg/kg		<0.0001 mg/kg	<0.00000001 %		<LOD
21	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	phenanthrene 201-581-5	85-01-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	fluoranthene 205-912-4	206-44-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	pyrene 204-927-3	129-00-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	chrysene 601-048-00-0	205-923-4	118-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	indeno[1,2,3-cd]pyrene 205-893-2	893-39-5			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
34	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
35	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
36	phenol 604-001-00-2	203-632-7	108-95-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
37	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5	107-06-2, 75-34-3			<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
38	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
39	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
40	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
41	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
42	hexachlorobenzene 602-065-00-6	204-273-9	118-74-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
43	aniline 612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	M/C Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number								
44	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		-0.1 mg/kg		-0.1 mg/kg	-0.00001 %			<LOD
45	bis(2-chloroethyl) ether	203-029-00-2	203-870-1		-0.2 mg/kg		-0.2 mg/kg	-0.00002 %			<LOD
46	hexachloroethane	200-666-4	57-72-1		-0.05 mg/kg		-0.05 mg/kg	-0.000005 %			<LOD
47	nitrobenzene	609-003-00-7	202-716-0		-0.3 mg/kg		-0.3 mg/kg	-0.00003 %			<LOD
48	3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0		-0.2 mg/kg		-0.2 mg/kg	-0.00002 %			<LOD
49	2-nitrophenol	201-857-5	88-75-5		-0.3 mg/kg		-0.3 mg/kg	-0.00003 %			<LOD
50	3,4-xylanol; [1] 2,5-xylanol; [2] 2,4-xylanol; [3] 2,3-xylanol; [4] 2,6-xylanol; [5] xylanol; [6] 2,4(or 2,5)-xylanol [7]	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		-0.3 mg/kg		-0.3 mg/kg	-0.00003 %			<LOD
51	bis(2-chloroethoxy)methane	203-026-2	111-91-1		-0.3 mg/kg		-0.3 mg/kg	-0.00003 %			<LOD
52	2,4-dichlorophenol	604-011-00-7	204-429-6		-0.3 mg/kg		-0.3 mg/kg	-0.00003 %			<LOD
53	4-chloroaniline	612-137-00-9	203-401-0		-0.1 mg/kg		-0.1 mg/kg	-0.00001 %			<LOD
54	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6		-0.1 mg/kg		-0.1 mg/kg	-0.00001 %			<LOD
55	2,4,6-trichlorophenol	604-018-00-5	201-795-9		-0.1 mg/kg		-0.1 mg/kg	-0.00001 %			<LOD
56	2,4,5-trichlorophenol	604-017-00-X	202-467-8		-0.2 mg/kg		-0.2 mg/kg	-0.00002 %			<LOD
57	2-methyl naphthalene	202-078-3	91-57-6		-0.1 mg/kg		-0.1 mg/kg	-0.00001 %			<LOD
58	2-chloronaphthalene	202-079-9	91-58-7		-0.1 mg/kg		-0.1 mg/kg	-0.00001 %			<LOD
59	dimethyl phthalate	205-011-6	131-11-3		-0.1 mg/kg		-0.1 mg/kg	-0.00001 %			<LOD
60	2,6-dinitrotoluene	609-049-00-8	210-106-0		-0.1 mg/kg		-0.1 mg/kg	-0.00001 %			<LOD
61	2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]		-0.2 mg/kg		-0.2 mg/kg	-0.00002 %			<LOD
62	dibenzofuran	205-071-3	132-64-9		-0.2 mg/kg		-0.2 mg/kg	-0.00002 %			<LOD
63	4-chlorophenylphenyl ether	230-281-7	7005-72-3		-0.3 mg/kg		-0.3 mg/kg	-0.00003 %			<LOD
64	diethyl phthalate	201-550-6	84-66-2		-0.2 mg/kg		-0.2 mg/kg	-0.00002 %			<LOD
65	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]		-0.2 mg/kg		-0.2 mg/kg	-0.00002 %			<LOD
66	azobenzene	611-001-00-6	203-102-5		-0.3 mg/kg		-0.3 mg/kg	-0.00003 %			<LOD
67	4-bromophenylphenyl ether	202-952-4	101-55-3		-0.2 mg/kg		-0.2 mg/kg	-0.00002 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	M/C Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
68	carbazole	201-696-0	86-74-8		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
69	dibutyl phthalate; DBP	207-318-00-4	201-557-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
70	anthraquinone	206-151-00-4	201-549-0		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
71	BBP; benzyl butyl phthalate	207-430-00-3	201-622-7		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
72	1,1,1-trichloroethane; methyl chloroform	202-013-00-2	200-756-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	1,1,2,2-tetrachloroethane	202-015-00-3	201-197-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	1,1,2-trichloroethane	202-014-00-8	201-166-0		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
75	1,1-dichloroethylene; vinylidene chloride	202-025-00-8	200-864-0		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
76	1,1-dichloropropane	202-031-00-0	209-253-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
77	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
78	1,2,4-trimethylbenzene	201-043-00-3	202-436-9		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
79	1,2-dibromoethane	202-010-00-6	203-444-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
80	1,2-dichlorobenzene; o-dichlorobenzene	202-034-00-7	202-425-9		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
81	1,2-dichloropropane; propylene dichloride	202-020-00-0	201-152-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
82	1,3-dichlorobenzene	202-067-00-7	208-792-1		1 mg/kg		0.79 mg/kg	0.000079 %	✓	
83	1,3-dichloropropane	205-531-3	642-28-0		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
84	1,4-dichlorobenzene; p-dichlorobenzene	202-035-00-2	203-400-5		0.8 mg/kg		0.632 mg/kg	0.0000632 %	✓	
85	2,2-dichloropropane	209-832-0	504-20-7		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
86	bromodichloromethane	200-856-7	75-27-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
87	bromomethane; methylbromide	202-002-00-2	200-813-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
88	bromobenzene	202-060-00-0	203-623-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
89	n-butylbenzene	203-209-7	604-51-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
90	1,3-dichloropropane; [1] (Z)-1,3-dichloropropane [2]	202-030-00-5	208-826-5 [1] 233-195-8 [2]		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
91	chlorobenzene	202-033-00-1	203-628-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
92	chloroethane	202-009-00-0	200-830-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
93	chloroform; trichloromethane	202-005-00-4	200-863-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
94	chloromethane; methyl chloride	202-001-00-7	200-817-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
95	dibromochloromethane	204-704-0	624-48-1		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
96	1,2-dibromo-3-chloropropane	202-021-00-6	202-479-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
97	dibromomethane	602-003-00-3	200-824-2	74-95-3	-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
98	hexachlorobutadiene	201-765-5	87-68-3		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
99	4-isopropyltoluene	202-796-7	69-87-6		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
100	sec-butylbenzene	205-227-0	135-98-8		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
101	styrene	601-026-00-0	202-851-5	100-42-5	-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
102	trans-1,3-dichloropropene	431-460-4	10061-02-6		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
103	tert-butylbenzene	202-632-4	98-06-6		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
104	bromolorm; tribromomethane	602-007-00-X	200-854-6	75-25-2	-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
105	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
106	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
107	trichlorofluoromethane	200-892-3	75-69-4		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
108	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
109	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
110	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-0	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]	-0.5 mg/kg		-0.5 mg/kg	<0.00005 %		<LOD
111	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]	-0.002 mg/kg		-0.002 mg/kg	<0.0000002 %		<LOD
112	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]	-0.002 mg/kg		-0.002 mg/kg	<0.0000002 %		<LOD
113	cumene; [1] propylbenzene [2]	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]	-0.002 mg/kg		-0.002 mg/kg	<0.0000002 %		<LOD
Total:								0.107 %		

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)
- Specialised 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 because Not present in free phase

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0719%)

Classification of sample: TP06—1.60

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

Sample details

Sample name:	LoW Code:
TP06—1.60	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
22% (wet weight correction)	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

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 determinant:

zinc chromate: (compound conc.: 3.895%)

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 determinant:

zinc chromate: (compound conc.: 3.895%)

Determinands

Moisture content: 22% Wet Weight Moisture Correction applied (MC)

#	Determinand			C.P. Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number									
1	arsenic (arsenic trioxide)				71	mg/kg	1.32	73.12	mg/kg	0.00731 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron (diboron trioxide; boric oxide)				0.5	mg/kg	3.22	1.256	mg/kg	0.000126 %	✓	
	005-008-00-8	215-125-8	1303-85-2									
3	cadmium (cadmium oxide)				4.9	mg/kg	1.142	4.366	mg/kg	0.000437 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds (chromium(III) oxide (worst case))				27	mg/kg	1.462	30.78	mg/kg	0.00308 %	✓	
		215-160-0	1308-38-0									
5	chromium in chromium(VI) compounds (chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex)				<4	mg/kg	2.27	<9.08	mg/kg	<0.000908 %		<LOD
	024-017-00-8											
6	copper (dicopper oxide; copper (I) oxide)				180	mg/kg	1.126	158.075	mg/kg	0.0158 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead (lead chromate)			1	260	mg/kg	1.56	316.331	mg/kg	0.0203 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury (mercury dichloride)				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel (nickel chromate)				35	mg/kg	2.976	81.252	mg/kg	0.00813 %	✓	
	028-035-00-7	238-766-5	14721-38-7									
10	selenium (nickel selenate)				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-82-5									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
11	zinc [zinc chromate] 024-007-00-3	236-878-0	13530-65-0		18000 mg/kg	2.774	38949.017 mg/kg	3.895 %	✓	
12	TPH (C6 to C40) petroleum group TPH				94 mg/kg		73.32 mg/kg	0.00733 %	✓	
13	cyanides [salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex] 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
14	pH PH				7.9 pH		7.9 pH	7.9 pH		
15	naphthalene 601-052-00-2	202-040-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	acenaphthylene 205-017-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	acenaphthene 201-469-6	83-32-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	phenanthrene 201-581-5	85-01-8			0.57 mg/kg		0.445 mg/kg	0.0000445 %	✓	
20	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	fluoranthene 205-012-4	206-44-0			0.85 mg/kg		0.663 mg/kg	0.0000663 %	✓	
22	pyrene 204-927-3	129-00-0			0.76 mg/kg		0.593 mg/kg	0.0000593 %	✓	
23	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.68 mg/kg		0.53 mg/kg	0.000053 %	✓	
24	chrysene 601-048-00-0	205-023-4	218-01-9		0.77 mg/kg		0.601 mg/kg	0.0000601 %	✓	
25	benzo[b]fluoranthene 601-034-00-4	205-011-0	205-99-2		0.87 mg/kg		0.679 mg/kg	0.0000679 %	✓	
26	benzo[k]fluoranthene 601-036-00-5	205-016-6	207-08-0		0.38 mg/kg		0.296 mg/kg	0.0000296 %	✓	
27	benzo[a]pyrene; benzo[de]chrysene 601-032-00-3	200-028-5	50-32-8		0.59 mg/kg		0.46 mg/kg	0.000046 %	✓	
28	indeno[123-cd]pyrene 205-893-2	193-39-5			0.6 mg/kg		0.468 mg/kg	0.0000468 %	✓	
29	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.19 mg/kg		0.148 mg/kg	0.0000148 %	✓	
30	benzo[ghi]perylene 205-883-8	191-24-2			0.69 mg/kg		0.538 mg/kg	0.0000538 %	✓	
31	monohydric phenols P1186				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
32	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		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
Total								3.96 %		

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)
	Specialized 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 because Not present in free phase

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00733%)

Classification of sample: TP07--1.20

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

Sample details

Sample name:	LoW Code:
TP07--1.20	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
18% (wet weight correction)	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
1	arsenic (arsenic trioxide)				23 mg/kg	1.32	24.901 mg/kg	0.00249 %	✓	
	033-003-00-0	215-481-4	0327-53-3							
2	boron (diboron trioxide; boric oxide)				0.3 mg/kg	3.22	0.792 mg/kg	0.0000792 %	✓	
	005-008-00-8	215-125-8	0303-86-2							
3	cadmium (cadmium oxide)				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	0306-19-0							
4	chromium in chromium(III) compounds (chromium(III) oxide (worst case))				11 mg/kg	1.462	13.183 mg/kg	0.00132 %	✓	
		215-160-9	0308-38-9							
5	chromium in chromium(VI) compounds (chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex)				<4 mg/kg	2.27	<9.08 mg/kg	<0.000908 %		<LOD
	024-017-00-8									
6	copper (dicopper oxide; copper (I) oxide)				18 mg/kg	1.126	16.618 mg/kg	0.00166 %	✓	
	029-002-00-X	215-270-7	0317-39-1							
7	lead (lead chromate)			1	190 mg/kg	1.56	243.019 mg/kg	0.0156 %	✓	
	082-004-00-2	231-846-0	0758-07-6							
8	mercury (mercury dichloride)				0.4 mg/kg	1.353	0.444 mg/kg	0.0000444 %	✓	
	080-010-00-X	231-299-8	0487-94-7							
9	nickel (nickel chromate)				10 mg/kg	2.976	24.405 mg/kg	0.00244 %	✓	
	028-035-00-7	238-766-5	04721-18-7							
10	selenium (nickel selenate)				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	05060-62-5							
11	zinc (zinc chromate)				350 mg/kg	2.774	796.18 mg/kg	0.0796 %	✓	
	024-007-00-3	236-878-9	03530-65-9							
12	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	003-181-00-X	216-653-1	0634-04-4							
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	001-020-00-8	200-753-7	071-43-2							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	001-021-00-3	203-625-9	008-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	001-023-00-4	202-840-4	000-41-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	M/C Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number								
17	xylene 601-022-00-0	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]		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
18	cyanides (salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric cyanide and those specified elsewhere in this Annex) 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
19	pH		pH		8 pH		8 pH	SpH			
20	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.0001 mg/kg		<0.0001 mg/kg	<0.00000001 %			<LOD
21	acenaphthylene 205-017-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	phenanthrene 201-581-5	85-01-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	fluoranthene 205-012-4	206-44-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
27	pyrene 204-027-3	129-00-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
28	benzo(a)anthracene 601-033-00-0	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
29	chrysene 601-048-00-0	205-023-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
30	benzo(b)fluoranthene 601-034-00-4	205-011-0	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
31	benzo(k)fluoranthene 601-036-00-5	205-016-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
32	benzo(a)pyrene; benzo(b)chrysene 601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
33	indeno(1,2,3-cd)pyrene 205-893-2	193-39-5			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
34	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
35	benzo(ghi)perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
36	phenol 604-001-00-2	203-632-7	108-95-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
37	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5	107-06-2, 75-34-3			<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
38	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
39	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
40	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
41	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
42	hexachlorobenzene 602-065-00-6	204-273-9	118-74-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
43	aniline 612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
44	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-0 [2] 108-43-0 [3] 25167-80-0 [4]							
45	bis(2-chloroethyl) ether	603-029-00-2	203-870-1		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
46	hexachloroethane	200-666-4	67-72-1		-0.05 mg/kg		-0.05 mg/kg	<0.000005 %		<LOD
47	nitrobenzene	609-003-00-7	202-716-0		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
48	3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-128-0		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
49	2-nitrophenol	201-857-5	88-75-5		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
50	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]	604-005-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
51	bis(2-chloroethoxy)methane	203-020-2	111-91-1		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
52	2,4-dichlorophenol	604-011-00-7	204-429-6		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
53	4-chloroaniline	612-137-00-9	203-401-0		-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
54	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6		-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
55	2,4,6-trichlorophenol	604-018-00-5	201-795-9		-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
56	2,4,5-trichlorophenol	604-017-00-X	202-467-8		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
57	2-methyl naphthalene	202-078-3	91-57-6		-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
58	2-chloronaphthalene	202-079-9	91-58-7		-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
59	dimethyl phthalate	205-011-6	131-11-3		-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
60	2,6-dinitrotoluene	609-049-00-8	210-106-0		-0.1 mg/kg		-0.1 mg/kg	<0.00001 %		<LOD
61	2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]	-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
62	dibenzofuran	205-071-3	132-64-9		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
63	4-chlorophenylphenyl ether	230-281-7	7085-72-3		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
64	diethyl phthalate	201-550-6	84-66-2		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
65	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 100-01-6 [3]	-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
66	azobenzene	611-001-00-6	203-102-5		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
67	4-bromophenylphenyl ether	202-052-4	101-55-3		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	M/C Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
68	carbazole	201-696-0	95-74-8		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
69	dibutyl phthalate; DBP	207-318-00-4	201-557-4		-0.2 mg/kg		-0.2 mg/kg	<0.00002 %		<LOD
70	anthraquinone	206-151-00-4	201-549-0		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
71	BBP; benzyl butyl phthalate	207-430-00-3	201-622-7		-0.3 mg/kg		-0.3 mg/kg	<0.00003 %		<LOD
72	1,1,1-trichloroethane; methyl chloroform	202-013-00-2	200-756-3		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
73	1,1,2,2-tetrachloroethane	202-015-00-3	201-197-8		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
74	1,1,2-trichloroethane	202-014-00-8	201-166-0		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
75	1,1-dichloroethylene; vinylidene chloride	202-025-00-8	200-864-0		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
76	1,1-dichloropropane	202-031-00-0	200-253-3		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
77	1,2,3-trichlorobenzene	201-757-1	87-61-6		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
78	1,2,4-trimethylbenzene	201-043-00-3	202-436-0		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
79	1,2-dibromoethane	202-010-00-6	203-444-5		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
80	1,2-dichlorobenzene; o-dichlorobenzene	202-034-00-7	202-425-0		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
81	1,2-dichloropropane; propylene dichloride	202-020-00-0	201-152-2		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
82	1,3-dichlorobenzene	202-067-00-7	208-792-1		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
83	1,3-dichloropropane	205-531-3	142-28-9		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
84	1,4-dichlorobenzene; p-dichlorobenzene	202-035-00-2	203-400-5		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
85	2,2-dichloropropane	200-832-0	594-20-7		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
86	bromodichloromethane	200-856-7	75-27-4		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
87	bromomethane; methylbromide	202-002-00-2	200-813-2		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
88	bromobenzene	202-060-00-9	203-623-8		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
89	n-butylbenzene	203-209-7	104-51-8		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
90	1,3-dichloropropane; [1] (Z)-1,3-dichloropropane [2]	202-030-00-5	208-826-5 [1] 233-195-8 [2]		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
91	chlorobenzene	202-033-00-1	203-628-5		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
92	chloroethane	202-009-00-0	200-830-5		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
93	chloroform; trichloromethane	202-006-00-4	200-663-8		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
94	chloromethane; methyl chloride	202-001-00-7	200-817-4		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
95	1,2-dibromo-3-chloropropane	204-704-0	124-48-1		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD
96	1,2-dibromo-3-chloropropane	202-021-00-6	202-479-3		-0.001 mg/kg		-0.001 mg/kg	<0.0000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP Index number	EC Number	CAS Number							
97	dibromomethane	602-003-00-8	200-824-2	074-95-3	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
98	hexachlorobutadiene	201-765-5	87-68-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
99	4-isopropyltoluene	202-796-7	69-87-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
100	sec-butylbenzene	205-227-0	635-98-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
101	styrene	601-025-00-0	202-851-5	600-42-5	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
102	trans-1,3-dichloropropene	431-460-4	60061-02-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
103	tert-butylbenzene	202-632-4	98-06-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
104	bromotoluene; tribromomethane	602-007-00-X	200-854-6	075-25-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
105	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	620-82-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
106	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
107	trichlorofluoromethane	200-802-3	075-69-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
108	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	608-67-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
109	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
110	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	008-39-4 [1] 05-48-7 [2] 006-44-5 [3] 0319-77-3 [4]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
111	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	05-49-8 [1] 008-41-8 [2] 006-43-4 [3] 25168-05-2 [4]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
112	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-025-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 056-59-2 [2] 056-60-5 [3]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
113	cumene; [1] propylbenzene [2]	601-024-00-X	202-704-5 [1] 203-132-9 [2]	008-82-8 [1] 003-65-1 [2]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
Total								0.106 %		

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

Classification of sample: TP07—0.25

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

Sample details

Sample name:	LoW Code:
TP07—0.25	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
10% (wet weight correction)	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

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 determinant:

zinc chromate: (compound conc.: 0.18%)

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MAC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic (arsenic trioxide)				31	mg/kg	1.32	35.837	mg/kg	0.00368 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron (diboron trioxide; boric oxide)				0.5	mg/kg	3.22	1.449	mg/kg	0.000145 %	✓	
	005-008-00-8	215-125-8	1303-85-2									
3	cadmium (cadmium oxide)				1.2	mg/kg	1.142	1.234	mg/kg	0.000123 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds (chromium(III) oxide (worst case))				22	mg/kg	1.462	28.939	mg/kg	0.00289 %	✓	
		215-160-0	1308-38-0									
5	chromium in chromium(VI) compounds (chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex)				<4	mg/kg	2.27	<9.08	mg/kg	<0.000908 %		<LOD
	024-017-00-8											
6	copper (dicopper oxide; copper (II) oxide)				92	mg/kg	1.126	93.224	mg/kg	0.00932 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead (lead chromate)			1	140	mg/kg	1.56	196.537	mg/kg	0.0126 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	mercury (mercury dichloride)				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel (nickel chromate)				22	mg/kg	2.976	58.93	mg/kg	0.00589 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
10	selenium (nickel selenate)				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	230-125-2	15060-82-5									
11	zinc (zinc chromate)				720	mg/kg	2.774	1797.647	mg/kg	0.18 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				42	mg/kg		37.8	mg/kg	0.00378 %	✓	
			TPH									
13	cyanides (salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD