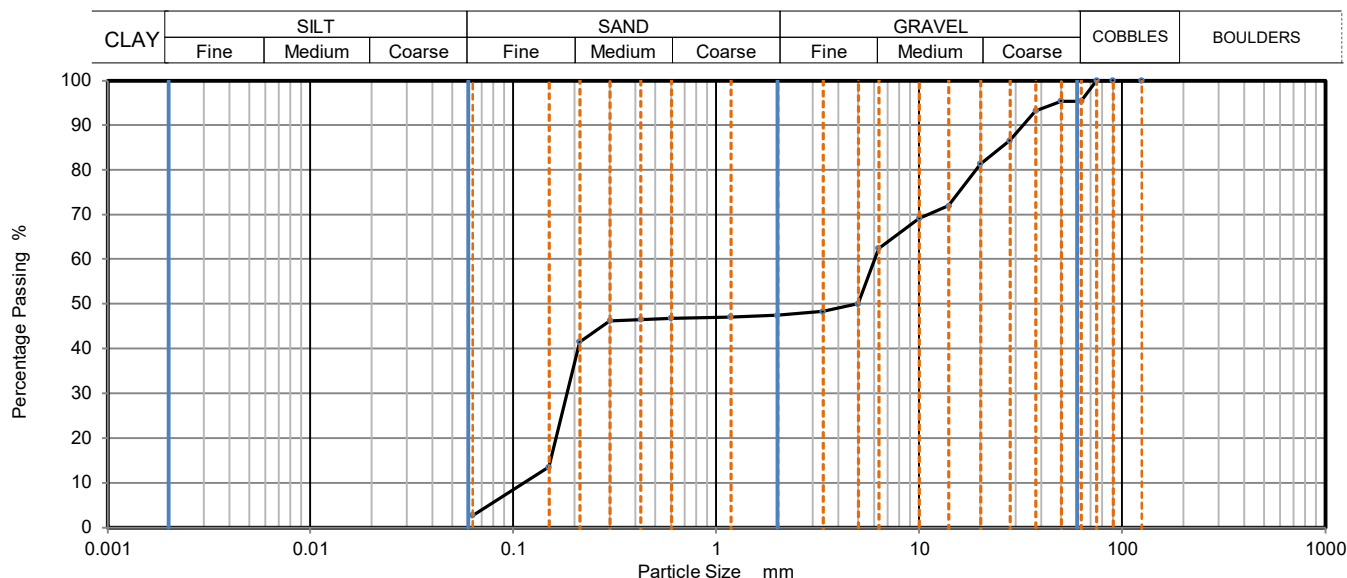


DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clause 9.2

Project Name:	Sovereign Harbour	Project Number:	GL26134
Client Name:	Ruby Senior Living Limited	Sample Location:	IT01
Sample Description:	Brown slightly clayey SAND / GRAVEL with low cobble content. Gravel and cobbles are of flint.	Sample Depth (m)	0.10
		Sample Reference	B1



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	95		
50	95		
37.5	93		
28	87		
20	81		
14	72		
10	69		
6.3	62		
5	50		
3.35	48		
2	47		
1.18	47		
0.6	47		
0.425	47		
0.3	46		
0.212	42		
0.15	14		
0.063	3		

Sample Proportions	% dry mass
Very coarse	5
Gravel	48
Sand	45
Fines <0.063mm	3

Grading Analysis		
D100	mm	
D60	mm	6.020
D30	mm	0.184
D10	mm	0.113
Uniformity Coefficient		53
Curvature Coefficient		0.05

Notes:

- 1) Unless we are notified to the contrary, samples will be disposed after a period of one month from this date.
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- 4) Only those results indicated in this report are UKAS accredited and any opinion or interpretations expressed are outside the scope of UKAS accreditation.



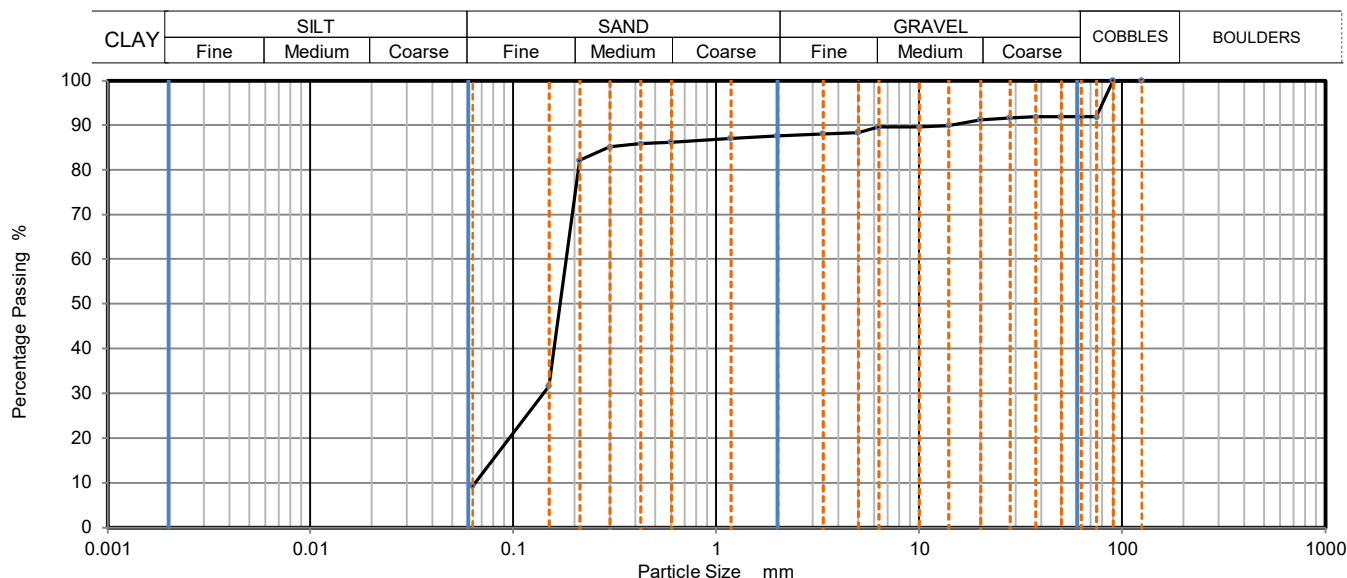
4031

Remarks	Approved	Date	Sheet No.:
	MW M. Willson Laboratory Manager	17/11/2023	1 of 1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clause 9.2

Project Name:	Sovereign Harbour	Project Number:	GL26134
Client Name:	Ruby Senior Living Limited	Sample Location:	IT01
Sample Description:	Brown clayey slightly gravelly SAND with medium cobble content. Cobbles are of flint. Gravel is of flint and shell fragments.	Sample Depth (m)	0.50
		Sample Reference	B2



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	92		
63	92		
50	92		
37.5	92		
28	92		
20	91		
14	90		
10	90		
6.3	90		
5	88		
3.35	88		
2	88		
1.18	87		
0.6	86		
0.425	86		
0.3	85		
0.212	82		
0.15	32		
0.063	9		

Sample Proportions	% dry mass
Very coarse	8
Gravel	4
Sand	78
Fines <0.063mm	9

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	2.8
Curvature Coefficient	1.7

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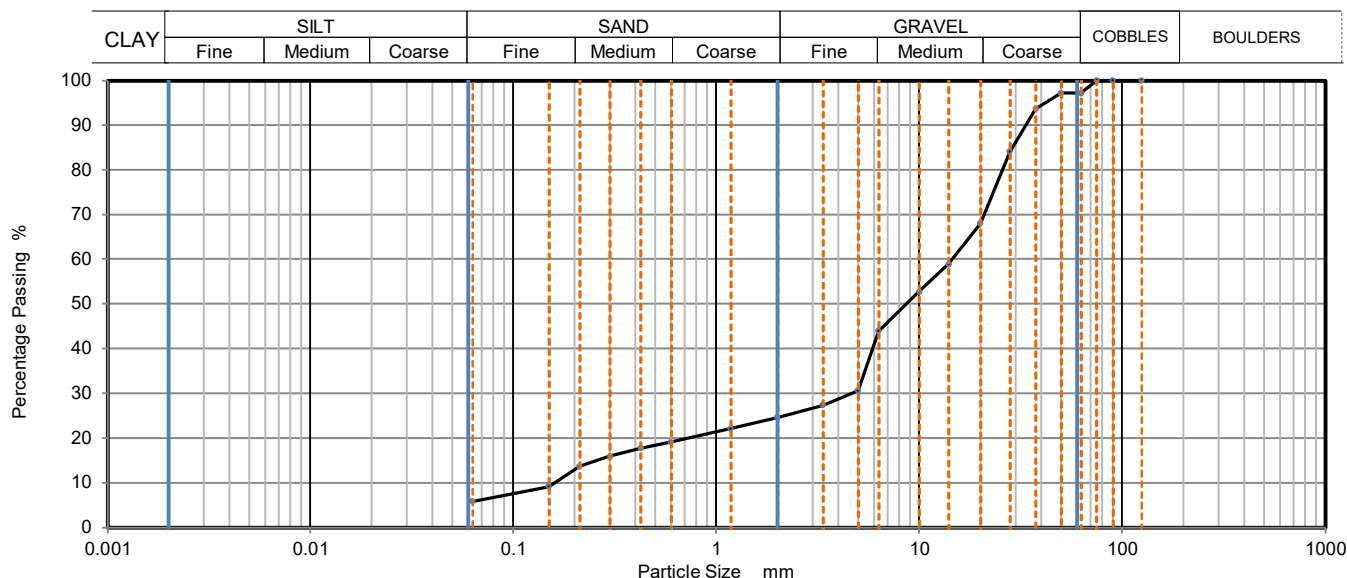
4031

Remarks	Approved	Date	Sheet No.:
	MW M. Willson Laboratory Manager	17/11/2023	1 of 1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clause 9.2

Project Name:	Sovereign Harbour	Project Number:	GL26134
Client Name:	Ruby Senior Living Limited	Sample Location:	IT02
Sample Description:	MADE GROUND (Dark grey clayey sandy GRAVEL with low cobble content. Cobbles are of brick. Gravel is of flint, brick and wood fragments).	Sample Depth (m)	0.50
		Sample Reference	B1



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	97		
50	97		
37.5	94		
28	84		
20	68		
14	59		
10	53		
6.3	44		
5	31		
3.35	27		
2	25		
1.18	22		
0.6	19		
0.425	18		
0.3	16		
0.212	14		
0.15	9		
0.063	6		

Sample Proportions	% dry mass
Very coarse	3
Gravel	73
Sand	19
Fines <0.063mm	6

Grading Analysis		
D100	mm	
D60	mm	14.600
D30	mm	4.660
D10	mm	0.161
Uniformity Coefficient		91
Curvature Coefficient		9.2

Notes:

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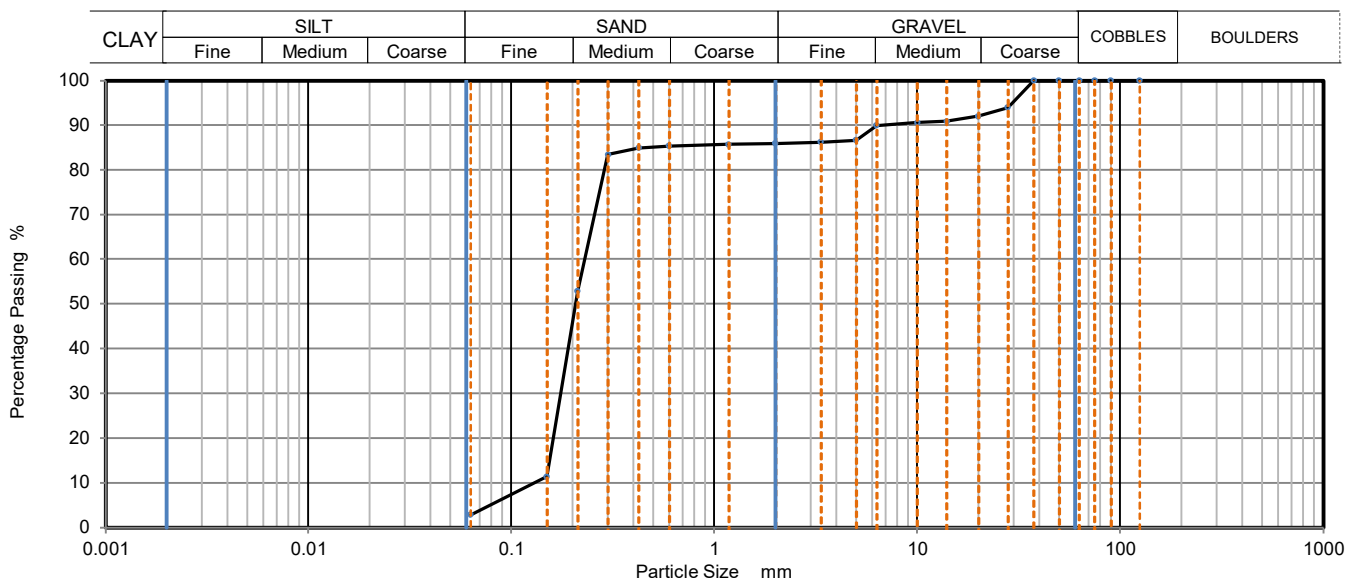
4031

Remarks	Approved	Date	Sheet No.:
	MW M. Willson Laboratory Manager	17/11/2023	1 of 1

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

BS1377:Part 2:1990, clause 9.2

Project Name:	Sovereign Harbour	Project Number:	GL26134
Client Name:	Ruby Senior Living Limited	Sample Location:	IT02
Sample Description:	Light brown slightly clayey gravelly SAND. Gravel is of flint.	Sample Depth (m)	1.50
		Sample Reference	B2



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	94		
20	92		
14	91		
10	91		
6.3	90		
5	87		
3.35	86		
2	86		
1.18	86		
0.6	85		
0.425	85		
0.3	83		
0.212	53		
0.15	11		
0.063	3		

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	83
Fines <0.063mm	3

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	1.8
Curvature Coefficient	1

Notes:

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4031

Remarks	Approved	Date	Sheet No.:
	MW M. Willson Laboratory Manager	17/11/2023	1 of 1



Amended Report

Report No.:	23-37151-3		
Initial Date of Issue:	10-Nov-2023	Date of Re-Issue:	20-Nov-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-37151-2 in its entirety		
Client	Harrison Group Environmental Ltd		
Client Address:	Kimberley Street Norwich Norfolk NR2 2RJ		
Contact(s):	Matthew Willson		
Project	GL26134 Sovereign Harbour		
Quotation No.:	Q22-29662	Date Received:	08-Nov-2023
Order No.:	PO/41846/GB	Date Instructed:	08-Nov-2023
No. of Samples:	8		
Turnaround (Wkdays):	5	Results Due:	14-Nov-2023
Date Approved:	10-Nov-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Soil

Project: GL26134 Sovereign Harbour

Client: Harrison Group Environmental Ltd	Chemtest Job No.:				23-37151	23-37151	23-37151	23-37151	23-37151	23-37151	23-37151	23-37151
Quotation No.: Q22-29662	Chemtest Sample ID.:				1727780	1727781	1727782	1727783	1727784	1727785	1727786	1727787
Order No.: PO/41846/GB	Client Sample Ref.:				D5	D8	D12	D18	D23	D2	D1	D2
	Sample Location:				BH01	BH01	BH01	BH01	BH01	IT01	IT02	IT02
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				5.00	10.00	14.50	19.00	22.50	1.50	0.50	1.50
	Bottom Depth (m):				5.00	10.00	14.50	19.00	22.95	1.50	0.50	1.50
	Date Sampled:				27-Oct-2023	27-Oct-2023	27-Oct-2023	27-Oct-2023	27-Oct-2023	27-Oct-2023	27-Oct-2023	27-Oct-2023
Determinand	Accred.	SOP	Units	LOD								
Moisture	N	2030	%	0.020	1.8	11	20	16	13	9.5	4.6	5.8
Soil Colour	N	2040		N/A	Brown	Brown	Grey	Grey	Grey	Brown	Brown	Brown
Other Material	N	2040		N/A	None	Stones	None	None	Roots	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Gravel	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH (2.5:1) at 20C	N	2010		4.0	9.3	9.0	9.0	8.3	8.6	9.4	8.7	9.4
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.062	0.12	0.11	0.70	0.49	< 0.010	0.095	0.013

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH at 20°C	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

APPENDIX I

CHEMICAL LABORATORY TEST RESULTS

Final Report

Report No.: 23-32575-1

Initial Date of Issue: 10-Oct-2023

Re-Issue Details:

Client Harrison Group Environmental Ltd

Client Address: Kimberley Street
Norwich
Norfolk
NR2 2RJ

Contact(s): GL

Project GL26134 Sovereign Harbour

Quotation No.: Q22-29662

Date Received: 29-Sep-2023

Order No.:

Date Instructed: 03-Oct-2023

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 09-Oct-2023

Date Approved: 10-Oct-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: GL26134 Sovereign Harbour

Client: Harrison Group Environmental Ltd	Chemtest Job No.:				23-32575	23-32575
Quotation No.: Q22-29662	Chemtest Sample ID.:				1709083	1709086
Order No.:	Client Sample Ref.:				ES1	ES1
	Sample Location:				BH02	BH01
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.20	0.50
	Date Sampled:				26-Sep-2023	27-Sep-2023
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	5.8	5.1
Soil Colour	N	2040		N/A	Brown	Beige
Other Material	N	2040		N/A	Stones and Roots	None
Soil Texture	N	2040		N/A	Sand	Sand
pH at 20C	U	2010		4.0	8.2	9.2
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	1.2	< 0.40
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	8.3	4.1
Sulphate (Total)	U	2430	mg/kg	100	1600	250
Arsenic	U	2455	mg/kg	0.5	15	14
Beryllium	U	2455	mg/kg	0.5	0.6	< 0.5
Cadmium	U	2455	mg/kg	0.10	0.77	< 0.10
Chromium	U	2455	mg/kg	0.5	18	12
Copper	U	2455	mg/kg	0.50	42	0.78
Mercury	U	2455	mg/kg	0.05	0.16	< 0.05
Nickel	U	2455	mg/kg	0.50	13	4.4
Lead	U	2455	mg/kg	0.50	390	3.4
Selenium	U	2455	mg/kg	0.25	0.35	< 0.25
Vanadium	U	2455	mg/kg	0.5	28	29
Zinc	U	2455	mg/kg	0.50	190	12
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	12	< 1.0
TPH >C21-C25	N	2670	mg/kg	1.0	30	< 1.0
TPH >C25-C35	N	2670	mg/kg	1.0	32	< 1.0
TPH >C35-C40	N	2670	mg/kg	1.0	8.9	< 1.0
Total TPH >C6-C40	U	2670	mg/kg	10	82	< 10
Naphthalene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Acenaphthene	U	2800	mg/kg	0.10	< 0.10	< 0.10
Fluorene	U	2800	mg/kg	0.10	< 0.10	< 0.10

Results - Soil

Project: GL26134 Sovereign Harbour

Client: Harrison Group Environmental Ltd	Chemtest Job No.:				23-32575	23-32575
Quotation No.: Q22-29662	Chemtest Sample ID.:				1709083	1709086
Order No.:	Client Sample Ref.:				ES1	ES1
	Sample Location:				BH02	BH01
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.20	0.50
	Date Sampled:				26-Sep-2023	27-Sep-2023
	Asbestos Lab:				DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD		
Phenanthrene	U	2800	mg/kg	0.10	1.7	< 0.10
Anthracene	U	2800	mg/kg	0.10	0.53	< 0.10
Fluoranthene	U	2800	mg/kg	0.10	4.9	< 0.10
Pyrene	U	2800	mg/kg	0.10	4.5	< 0.10
Benzo[a]anthracene	U	2800	mg/kg	0.10	2.3	< 0.10
Chrysene	U	2800	mg/kg	0.10	2.1	< 0.10
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	3.5	< 0.10
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	1.1	< 0.10
Benzo[a]pyrene	U	2800	mg/kg	0.10	3.0	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	2.1	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	2.4	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	28	< 2.0
Resorcinol	U	2920	mg/kg	0.020	< 0.020	< 0.020
Phenol	U	2920	mg/kg	0.020	< 0.020	< 0.020
Cresols	U	2920	mg/kg	0.020	< 0.020	< 0.020
Xylenols	U	2920	mg/kg	0.020	< 0.020	< 0.020
1-Naphthol	N	2920	mg/kg	0.020	< 0.020	< 0.020
Trimethylphenols	U	2920	mg/kg	0.020	< 0.020	< 0.020
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH at 20°C	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

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N	Unaccredited
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SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
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I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

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All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Final Report

Report No.: 23-33020-1

Initial Date of Issue: 10-Oct-2023

Re-Issue Details:

Client Harrison Group Environmental Ltd

Client Address: Kimberley Street
Norwich
Norfolk
NR2 2RJ

Contact(s): James Blyth

Project G26134 Sovereign Harbour

Quotation No.: Q22-29662

Date Received: 03-Oct-2023

Order No.:

Date Instructed: 04-Oct-2023

No. of Samples: 2

Turnaround (Wkdays): 5

Results Due: 10-Oct-2023

Date Approved: 10-Oct-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: G26134 Sovereign Harbour

Client: Harrison Group Environmental Ltd	Chemtest Job No.:				23-33020	23-33020
Quotation No.: Q22-29662	Chemtest Sample ID.:				1711145	1711146
Order No.:	Client Sample Ref.:				ES2	ES1
	Sample Location:				IT01	IT02
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.50	0.50
	Date Sampled:				28-Sep-2023	28-Sep-2023
	Asbestos Lab:				NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD		
ACM Type	U	2192		N/A	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	8.1	4.6
Soil Colour	N	2040		N/A	Brown	Brown
Other Material	N	2040		N/A	None	Stones
Soil Texture	N	2040		N/A	Sand	Sand
pH at 20C	U	2010		4.0	8.3	10.1
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	< 0.40	0.93
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	2.3	8.0
Sulphate (Total)	U	2430	mg/kg	100	350	4100
Arsenic	U	2455	mg/kg	0.5	7.7	23
Beryllium	U	2455	mg/kg	0.5	< 0.5	1.4
Cadmium	U	2455	mg/kg	0.10	< 0.10	1.2
Chromium	U	2455	mg/kg	0.5	8.3	50
Copper	U	2455	mg/kg	0.50	1.6	78
Mercury	U	2455	mg/kg	0.05	< 0.05	0.16
Nickel	U	2455	mg/kg	0.50	3.5	30
Lead	U	2455	mg/kg	0.50	5.1	350
Selenium	U	2455	mg/kg	0.25	< 0.25	1.5
Vanadium	U	2455	mg/kg	0.5	19	64
Zinc	U	2455	mg/kg	0.50	11	280
TPH >C6-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	8.3
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	24
TPH >C21-C25	N	2670	mg/kg	1.0	< 1.0	29
TPH >C25-C35	N	2670	mg/kg	1.0	< 1.0	48
TPH >C35-C40	N	2670	mg/kg	1.0	< 1.0	11
Total TPH >C6-C40	U	2670	mg/kg	10	< 10	120
Naphthalene	U	2800	mg/kg	0.10	< 0.10	0.52
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	0.29
Acenaphthene	U	2800	mg/kg	0.10	< 0.10	0.39
Fluorene	U	2800	mg/kg	0.10	< 0.10	0.41
Phenanthrene	U	2800	mg/kg	0.10	< 0.10	3.5

Results - Soil

Project: G26134 Sovereign Harbour

Client: Harrison Group Environmental Ltd	Chemtest Job No.:				23-33020	23-33020
Quotation No.: Q22-29662	Chemtest Sample ID.:				1711145	1711146
Order No.:	Client Sample Ref.:				ES2	ES1
	Sample Location:				IT01	IT02
	Sample Type:				SOIL	SOIL
	Top Depth (m):				0.50	0.50
	Date Sampled:				28-Sep-2023	28-Sep-2023
	Asbestos Lab:				NEW-ASB	NEW-ASB
Determinand	Accred.	SOP	Units	LOD		
Anthracene	U	2800	mg/kg	0.10	< 0.10	0.99
Fluoranthene	U	2800	mg/kg	0.10	< 0.10	5.9
Pyrene	U	2800	mg/kg	0.10	< 0.10	4.9
Benzo[a]anthracene	U	2800	mg/kg	0.10	< 0.10	2.4
Chrysene	U	2800	mg/kg	0.10	< 0.10	2.7
Benzo[b]fluoranthene	U	2800	mg/kg	0.10	< 0.10	3.6
Benzo[k]fluoranthene	U	2800	mg/kg	0.10	< 0.10	1.3
Benzo[a]pyrene	U	2800	mg/kg	0.10	< 0.10	3.1
Indeno(1,2,3-c,d)Pyrene	U	2800	mg/kg	0.10	< 0.10	2.3
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	0.44
Benzo[g,h,i]perylene	U	2800	mg/kg	0.10	< 0.10	2.1
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	35
Resorcinol	U	2920	mg/kg	0.020	< 0.020	< 0.020
Phenol	U	2920	mg/kg	0.020	< 0.020	< 0.020
Cresols	U	2920	mg/kg	0.020	< 0.020	< 0.020
Xylenols	U	2920	mg/kg	0.020	< 0.020	< 0.020
1-Naphthol	N	2920	mg/kg	0.020	< 0.020	< 0.020
Trimethylphenols	U	2920	mg/kg	0.020	< 0.020	< 0.020
Total Phenols	U	2920	mg/kg	0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH at 20°C	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 23-34353-1

Initial Date of Issue: 20-Oct-2023

Re-Issue Details:

Client Harrison Group Environmental Ltd

Client Address: 1 Francis Court
High Ditch Road
Fen Ditton
Cambridge
CB5 8TE

Contact(s): GL

Project GL26134 Sovereign Harbour

Quotation No.: **Date Received:** 13-Oct-2023

Order No.: **Date Instructed:** 13-Oct-2023

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 19-Oct-2023

Date Approved: 20-Oct-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Water

Project: GL26134 Sovereign Harbour

Client: Harrison Group Environmental Ltd	Chemtest Job No.:		23-34353		
Quotation No.:	Chemtest Sample ID.:		1716392		
	Client Sample ID.:		1-SP1		
	Sample Location:		BH01		
	Sample Type:		WATER		
	Top Depth (m):		5.50		
	Bottom Depth (m):		5.50		
	Date Sampled:		11-Oct-2023		
	Time Sampled:		10:36		
Determinand	Accred.	SOP	Units	LOD	
pH at 20C	U	1010		N/A	7.5
Sulphur	N	1220	mg/l	1.0	800
Sulphate	U	1220	mg/l	1.0	2400
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050
Thiocyanate	U	1300	mg/l	0.50	< 0.50
Arsenic (Dissolved)	U	1455	µg/l	0.20	2.1
Boron (Dissolved)	U	1455	µg/l	10.0	4100
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	0.92
Copper (Dissolved)	U	1455	µg/l	0.50	< 0.50
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05
Nickel (Dissolved)	U	1455	µg/l	0.50	0.56
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	1.5
Zinc (Dissolved)	U	1455	µg/l	2.5	24
Chromium (Hexavalent)	U	1490	µg/l	20	< 20
Total TPH >C6-C40	U	1670	µg/l	10	< 10
Total Of 16 PAH's	U	1800	µg/l	2.0	< 2.0
Total Phenols	U	1920	mg/l	0.030	0.17

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH at 20°C	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1670	Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO	Pentane extraction / GC FID detection
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

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Sample Retention and Disposal

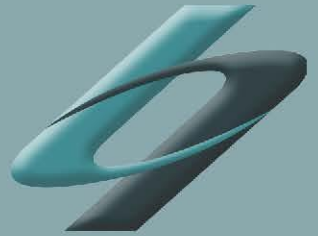
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customerservices@chemtest.com



Norwich (Registered Office)

Kimberley Street
Norwich
Norfolk
NR2 2RJ

Tel: 01603 613111

London

12 Waterways Business Centre
Navigation Drive
South Ordnance Road
Enfield, EN3 6JJ

Tel: 020 7537 9233

Cambridge

1 Francis Court
High Ditch Road
Fen Ditton, Cambridge
CB5 8TE

Tel: 01223 781585

Colchester

Colchester Business Centre
1 George Williams Way
Colchester
CO1 2JS

Tel: 01206 986675

Appendix 4

Hazardous Properties Assessment

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)



HM66Z-GUN08-FG8YH

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

Job name

Site 1, Sovereign Harbour Eastbourne

Description/Comments

Project

14150

Site

14150 Site 1, Sovereign Harbour

Classified by

Name: Charlotte Stephenson
Date: 28 Nov 2023 16:14 GMT
Telephone:
Company: Campbell Reith Consulting Engineers
London

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

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

-

Purpose of classification

2 - Material Characterisation

Address of the waste

Site 1, Sovereign Harbour

Post Code BN23 5TJ

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of the site into residential blocks

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

Excavations associated with site development.

Description of the waste

Made Ground.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH01 (0.5)	0.5	Non Hazardous		3
2	BH02A (0.2)	0.2	Non Hazardous		5
3	IT01 (0.5)	0.5	Non Hazardous		7
4	IT02 (0.5)	0.5	Non Hazardous		9

Related documents

#	Name	Description
1	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Charlotte Stephenson

Created date: 28 Nov 2023 16:14 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	11
Appendix B: Rationale for selection of metal species	12
Appendix C: Version	13

Classification of sample: BH01 (0.5)

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

Sample details

Sample name:	LoW Code:
BH01 (0.5)	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.1%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.1% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }			14	mg/kg	1.32	17.588	mg/kg	0.00176 %	✓	
		033-003-00-0	215-481-4	1327-53-3								
2		beryllium { beryllium oxide }			<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
		004-003-00-8	215-133-1	1304-56-9								
3		boron { diboron trioxide }			<0.4	mg/kg	3.22	<1.288	mg/kg	<0.000129 %		<LOD
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }			<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }			0.4	mg/kg	1.462	0.556	mg/kg	0.0000556 %	✓	
			215-160-9	1308-38-9								
6		copper { dicopper oxide; copper (I) oxide }			0.78	mg/kg	1.126	0.836	mg/kg	0.0000836 %	✓	
		029-002-00-X	215-270-7	1317-39-1								
7		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }		1	3.4	mg/kg		3.235	mg/kg	0.000324 %	✓	
		082-001-00-6										
8		mercury { mercury dichloride }			<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<LOD
		080-010-00-X	231-299-8	7487-94-7								
9		nickel { nickel sulfate }			4.4	mg/kg	2.637	11.038	mg/kg	0.0011 %	✓	
		028-009-00-5	232-104-9	7786-81-4								
10		selenium { nickel selenate }			<0.25	mg/kg	2.554	<0.638	mg/kg	<0.0000638 %		<LOD
		028-031-00-5	239-125-2	15060-62-5								
11		zinc { zinc sulphate }			12	mg/kg	2.469	28.194	mg/kg	0.00282 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12		TPH (C6 to C40) petroleum group			<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				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 }			<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5										
14		pH			9.2	pH		9.2	pH	9.2 pH		
				PH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
16	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
17	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
18	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
19	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
20	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
21	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
22	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
23	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
24	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
25	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
26	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
27	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
28	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
29	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
30	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
31	phenol				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.00775 %		

Key

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

Classification of sample: BH02A (0.2)

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

Sample details

Sample name:	LoW Code:
BH02A (0.2)	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.8%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.8% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				15 mg/kg	1.32	18.719 mg/kg	0.00187 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		beryllium { beryllium oxide }				0.6 mg/kg	2.775	1.574 mg/kg	0.000157 %	✓		
		004-003-00-8	215-133-1	1304-56-9								
3		boron { diboron trioxide }				1.2 mg/kg	3.22	3.652 mg/kg	0.000365 %	✓		
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }				0.77 mg/kg	1.142	0.831 mg/kg	0.0000831 %	✓		
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				1.2 mg/kg	1.462	1.658 mg/kg	0.000166 %	✓		
			215-160-9	1308-38-9								
6		copper { dicopper oxide; copper (I) oxide }				42 mg/kg	1.126	44.695 mg/kg	0.00447 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
7		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	390 mg/kg		368.62 mg/kg	0.0369 %	✓		
		082-001-00-6										
8		mercury { mercury dichloride }				0.16 mg/kg	1.353	0.205 mg/kg	0.0000205 %	✓		
		080-010-00-X	231-299-8	7487-94-7								
9		nickel { nickel sulfate }				13 mg/kg	2.637	32.398 mg/kg	0.00324 %	✓		
		028-009-00-5	232-104-9	7786-81-4								
10		selenium { nickel selenate }				0.35 mg/kg	2.554	0.845 mg/kg	0.0000845 %	✓		
		028-031-00-5	239-125-2	15060-62-5								
11		zinc { zinc sulphate }				190 mg/kg	2.469	443.446 mg/kg	0.0443 %	✓		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12		TPH (C6 to C40) petroleum group				82 mg/kg		77.505 mg/kg	0.00775 %	✓		
				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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD	
		006-007-00-5										
14		pH				8.2 pH		8.2 pH	8.2 pH			
				PH								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	phenanthrene 201-581-5	85-01-8			1.7 mg/kg		1.607 mg/kg	0.000161 %	✓	
20	anthracene 204-371-1	120-12-7			0.53 mg/kg		0.501 mg/kg	0.0000501 %	✓	
21	fluoranthene 205-912-4	206-44-0			4.9 mg/kg		4.631 mg/kg	0.000463 %	✓	
22	pyrene 204-927-3	129-00-0			4.5 mg/kg		4.253 mg/kg	0.000425 %	✓	
23	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		2.3 mg/kg		2.174 mg/kg	0.000217 %	✓	
24	chrysene 601-048-00-0	205-923-4	218-01-9		2.1 mg/kg		1.985 mg/kg	0.000198 %	✓	
25	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		3.5 mg/kg		3.308 mg/kg	0.000331 %	✓	
26	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		1.1 mg/kg		1.04 mg/kg	0.000104 %	✓	
27	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		3 mg/kg		2.836 mg/kg	0.000284 %	✓	
28	indeno[123-cd]pyrene 205-893-2	193-39-5			2.1 mg/kg		1.985 mg/kg	0.000198 %	✓	
29	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	benzo[ghi]perylene 205-883-8	191-24-2			2.4 mg/kg		2.268 mg/kg	0.000227 %	✓	
31	phenol 604-001-00-2	203-632-7	108-95-2		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
Total:								0.102 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because the test is solid not liquid

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00775%)

Classification of sample: IT01 (0.5)

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

Sample details

Sample name:	LoW Code:
IT01 (0.5)	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.1%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.7 mg/kg	1.32	9.405 mg/kg	0.00094 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide }				<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				0.4 mg/kg	1.462	0.541 mg/kg	0.0000541 %	✓	
		215-160-9	1308-38-9							
6	copper { dicopper oxide; copper (I) oxide }				1.6 mg/kg	1.126	1.666 mg/kg	0.000167 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	5.1 mg/kg		4.718 mg/kg	0.000472 %	✓	
	082-001-00-6									
8	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel sulfate }				3.5 mg/kg	2.637	8.537 mg/kg	0.000854 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<0.25 mg/kg	2.554	<0.638 mg/kg	<0.0000638 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate }				11 mg/kg	2.469	25.127 mg/kg	0.00251 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
14	pH				8.3 pH		8.3 pH	8.3 pH		
			PH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
16	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
17	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
18	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
19	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
20	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
21	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
22	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
23	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
24	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
25	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
26	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
27	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
28	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
29	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
30	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
31	phenol				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.00661 %		

Key

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

Classification of sample: IT02 (0.5)

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

Sample details

Sample name:	LoW Code:
IT02 (0.5)	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.1%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.1% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				23	mg/kg	1.32	27.582	mg/kg	0.00276 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		beryllium { beryllium oxide }				1.4	mg/kg	2.775	3.529	mg/kg	0.000353 %	✓	
		004-003-00-8	215-133-1	1304-56-9									
3		boron { diboron trioxide }				0.93	mg/kg	3.22	2.72	mg/kg	0.000272 %	✓	
		005-008-00-8	215-125-8	1303-86-2									
4		cadmium { cadmium oxide }				1.2	mg/kg	1.142	1.245	mg/kg	0.000125 %	✓	
		048-002-00-0	215-146-2	1306-19-0									
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				0.93	mg/kg	1.462	1.235	mg/kg	0.000123 %	✓	
			215-160-9	1308-38-9									
6		copper { dicopper oxide; copper (I) oxide }				78	mg/kg	1.126	79.763	mg/kg	0.00798 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
7		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	350	mg/kg		317.893	mg/kg	0.0318 %	✓	
		082-001-00-6											
8		mercury { mercury dichloride }				0.16	mg/kg	1.353	0.197	mg/kg	0.0000197 %	✓	
		080-010-00-X	231-299-8	7487-94-7									
9		nickel { nickel sulfate }				30	mg/kg	2.637	71.844	mg/kg	0.00718 %	✓	
		028-009-00-5	232-104-9	7786-81-4									
10		selenium { nickel selenate }				1.5	mg/kg	2.554	3.479	mg/kg	0.000348 %	✓	
		028-031-00-5	239-125-2	15060-62-5									
11		zinc { zinc sulphate }				280	mg/kg	2.469	627.977	mg/kg	0.0628 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12		TPH (C6 to C40) petroleum group				120	mg/kg		108.992	mg/kg	0.0109 %	✓	
				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 }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
		006-007-00-5											
14		pH				10.1	pH		10.1	pH	10.1 pH		
				PH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	naphthalene 601-052-00-2	202-049-5	91-20-3		0.52 mg/kg		0.472 mg/kg	0.0000472 %	✓	
16	acenaphthylene 205-917-1	208-96-8			0.29 mg/kg		0.263 mg/kg	0.0000263 %	✓	
17	acenaphthene 201-469-6	83-32-9			0.39 mg/kg		0.354 mg/kg	0.0000354 %	✓	
18	fluorene 201-695-5	86-73-7			0.41 mg/kg		0.372 mg/kg	0.0000372 %	✓	
19	phenanthrene 201-581-5	85-01-8			3.5 mg/kg		3.179 mg/kg	0.000318 %	✓	
20	anthracene 204-371-1	120-12-7			0.99 mg/kg		0.899 mg/kg	0.0000899 %	✓	
21	fluoranthene 205-912-4	206-44-0			5.9 mg/kg		5.359 mg/kg	0.000536 %	✓	
22	pyrene 204-927-3	129-00-0			4.9 mg/kg		4.45 mg/kg	0.000445 %	✓	
23	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		2.4 mg/kg		2.18 mg/kg	0.000218 %	✓	
24	chrysene 601-048-00-0	205-923-4	218-01-9		2.7 mg/kg		2.452 mg/kg	0.000245 %	✓	
25	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		3.6 mg/kg		3.27 mg/kg	0.000327 %	✓	
26	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		1.3 mg/kg		1.181 mg/kg	0.000118 %	✓	
27	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		3.1 mg/kg		2.816 mg/kg	0.000282 %	✓	
28	indeno[123-cd]pyrene 205-893-2	193-39-5			2.3 mg/kg		2.089 mg/kg	0.000209 %	✓	
29	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.44 mg/kg		0.4 mg/kg	0.00004 %	✓	
30	benzo[ghi]perylene 205-883-8	191-24-2			2.1 mg/kg		1.907 mg/kg	0.000191 %	✓	
31	phenol 604-001-00-2	203-632-7	108-95-2		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
Total:								0.128 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because the test is solid not liquid

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0109%)

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

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

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

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015**TPH (C6 to C40) petroleum group** (CAS Number: TPH)

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

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

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

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

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

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

Reason for additional Hazards Statement(s):

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

pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

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

Data source date: 21 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

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

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

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

Data source date: 23 Jul 2015

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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics

boron {diboron trioxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass

cadmium {cadmium oxide}

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

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

Unlikely to be present based on the site's history.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel sulfate}

Unlikely to be present based on the site's history.

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

zinc {zinc sulphate}

Unlikely to be present based on the site's history.

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}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide]

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2023.325.5817.10787 (21 Nov 2023)

HazWasteOnline Database: 2023.325.5817.10787 (21 Nov 2023)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

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

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