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Waste Characterisation Assessment

Croke Villas

Sackville Avenue

Drumcondra

Dublin 3

Prepared For: -

IGSL Limited
Unit F
M7 Business Park
Naas
County Kildare

Prepared By: -

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March 2024

Project	Waste Characterisation: Croke Villas, Drumcondra, Dublin 3			
Client	IGSL Limited			
Report No	Date	Status	Prepared By	Reviewed By
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APPENDICES

1 INTRODUCTION

IGSL Limited requested O'Callaghan Moran & Associates (OCM) to undertake a waste characterisation assessment of twenty nine (29 No.) samples of made and natural ground collected from twelve (12 No.) cable percussion boreholes and eleven (11 No.) trial pits from a site at Croke Villas, Drumcondra, Dublin 3.

1.1 Methodology

IGSL provided a description of the ground conditions and collected samples of the soils from the trial pit and borehole locations. The samples were analysed at an accredited laboratory and the results formed the basis for a waste classification assessment, which was undertaken by OCM in accordance with the Environmental Protection Agency (EPA) Guidelines on the Classification of Waste (2015).

2 WASTE CLASSIFICATION ASSESSMENT

2.1 Soil Sampling and Laboratory Analysis

2.1.1 *Site Investigation*

The site investigation was undertaken in January 2024 and included the collection of twenty-nine (29 No.) samples of made and natural ground collected from twelve (12 No.) cable percussion boreholes and twelve (12 No.) trial pits. The location of the samples is shown on DWG01 and DGW02. The logs are in Appendix 1.

There is topsoil at the surface of TP01-TP10. There is Made Ground composed of sandy gravelly CLAY at the surface of all other location.

The subsurface is comprises Made Ground underlain by Natural Ground. The Made Ground is generally 1.60-2.30m in thickness and is composed of sandy gravelly CLAY with cobble content. The Made Ground at TP05 extends to at least 3.00 mbgl and is composed of gravelly SAND with cobble content. The Made Ground at all locations contains non-natural material >2% of the soil matrix including fragments of plastic, brick and concrete.

The Made Ground is underlain by Natural Ground and comprises firm to stiff, sandy gravelly SILT/CLAY to circa. 4.00 mbgl. This is underlain by stiff to very stiff, sandy gravelly CLAY with some cobble content. Some lenses (0.5-1.00m) of medium dense to dense sandy GRAVEL were encountered across the site.

A strong hydrocarbon odour was noted in BH11 between 2.00-3.20mbgl.

2.1.2 *Sample Collection*

IGSL collected the samples and placed them in laboratory prepared containers that were stored in coolers prior to shipment to Chemtest Ltd.

2.1.3 *Laboratory Analysis*

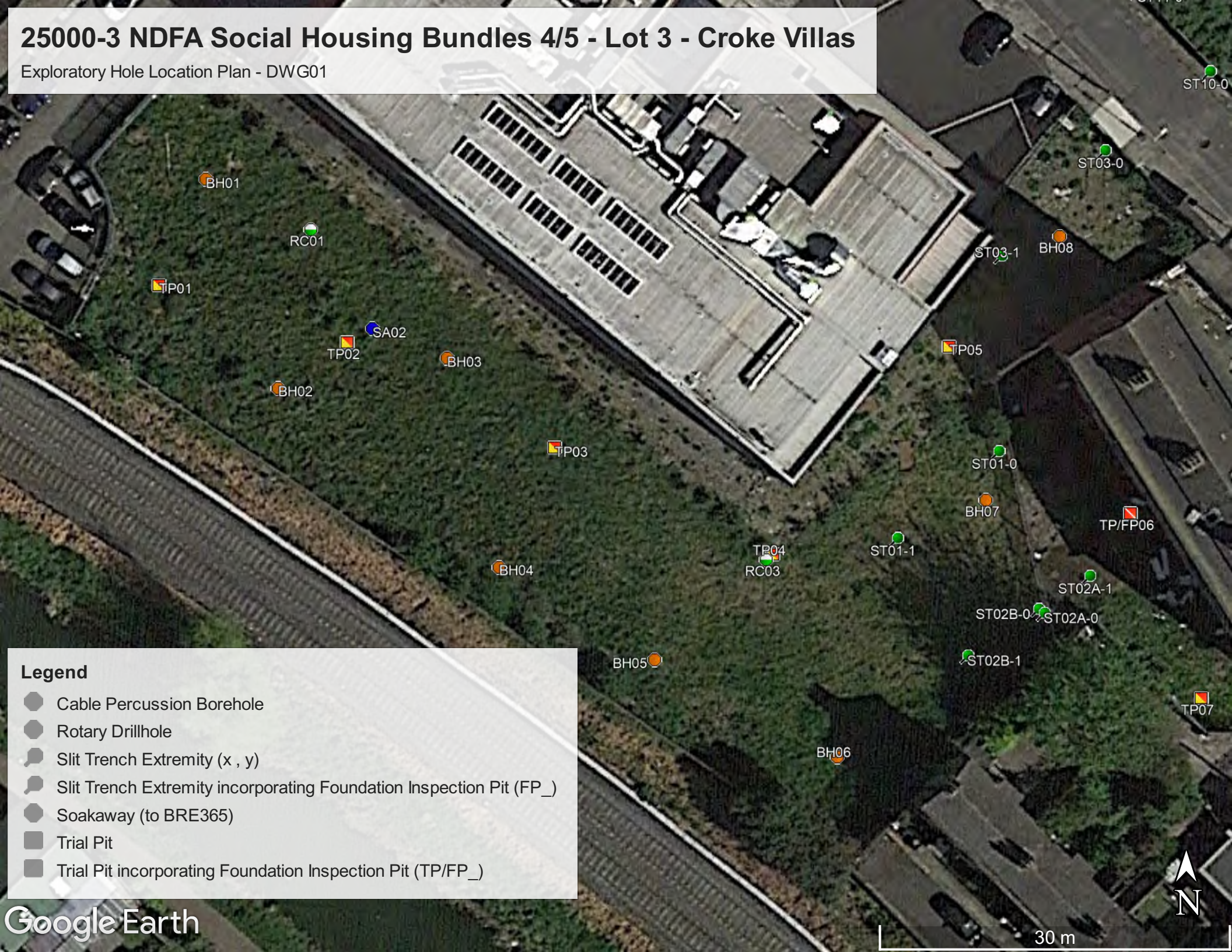
The samples were tested for, metals (arsenic, barium, cadmium, chromium, copper, mercury, molybdenum, nickel, lead, antimony, selenium and zinc, total organic carbon (TOC), BTEX (benzene, toluene, ethylbenzene and xylene) aliphatic and aromatic hydrocarbons, polychlorinated biphenyls (PCB), mineral oil, polyaromatic hydrocarbons (PAH) and asbestos. Leachate generated from the samples was tested for arsenic, barium, cadmium, chromium, copper, mercury, molybdenum, nickel, lead, antimony, selenium and zinc, chloride, fluoride, soluble sulphate, phenols, dissolved organic carbon (DOC), total dissolved solids (TDS).

This parameter range facilitates an assessment of the hazardous properties of the waste, and also allows a determination of appropriate off-site management options based on the Waste Acceptance Criteria (WAC) applied by landfill operators.

The analytical methods were all ISO/CEN approved and the method detection limits were below the relevant guidance/threshold values. The full laboratory report is in Appendix 2.

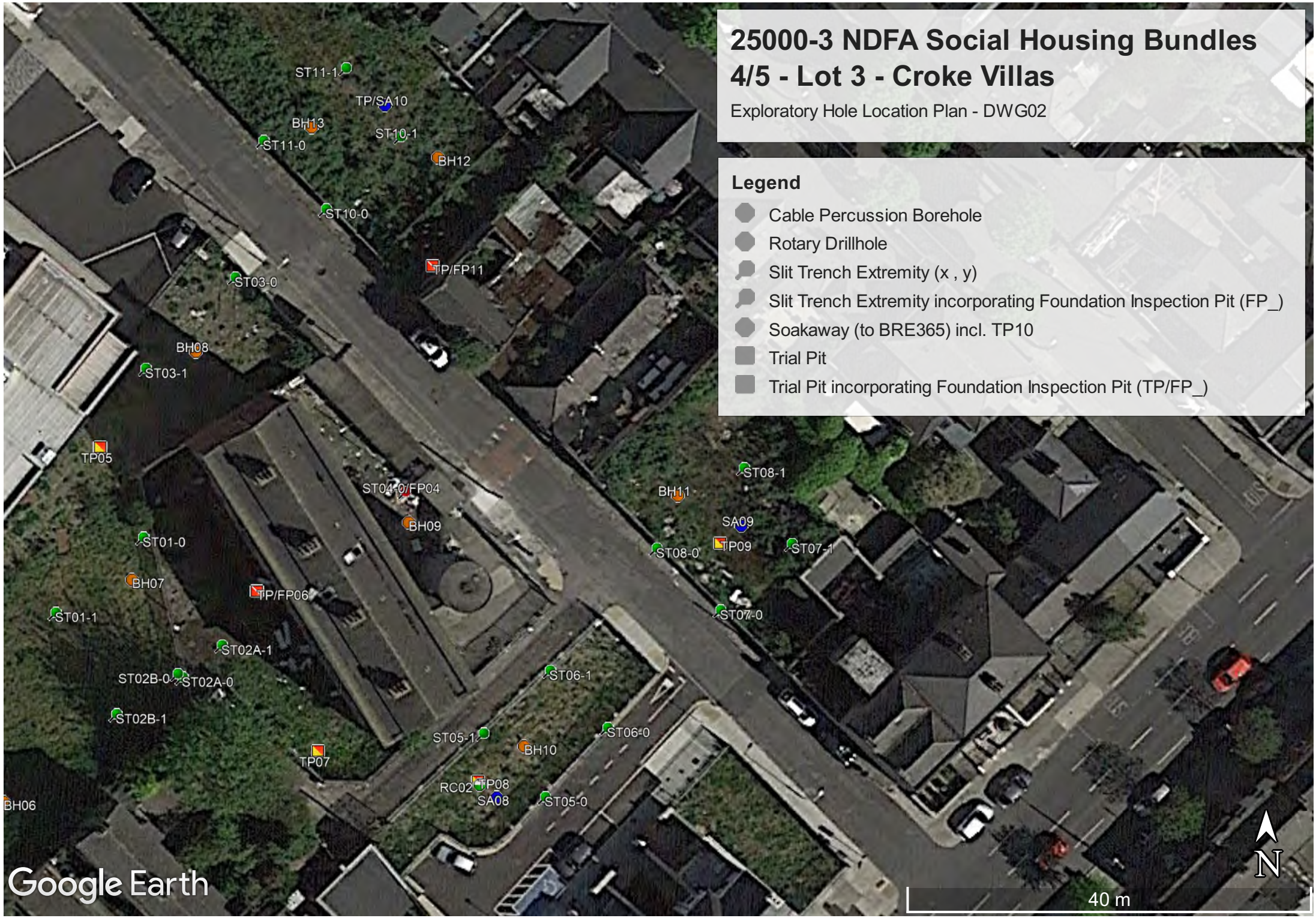
25000-3 NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

Exploratory Hole Location Plan - DWG01



Legend

- Cable Percussion Borehole
- Rotary Drillhole
- Slit Trench Extremity (x , y)
- Slit Trench Extremity incorporating Foundation Inspection Pit (FP_)
- Soakaway (to BRE365)
- Trial Pit
- Trial Pit incorporating Foundation Inspection Pit (TP/FP_)


25000-3 NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas
Exploratory Hole Location Plan - DWG02
Legend
Cable Percussion Borehole
Rotary Drillhole
Slit Trench Extremity (x , y)
Slit Trench Extremity incorporating Foundation Inspection Pit (FP_)
Soakaway (to BRE365) incl. TP10
Trial Pit
Trial Pit incorporating Foundation Inspection Pit (TP/FP_)
ST11-1
TP/SA10
BH13
ST10-1
ST11-0
BH12
ST10-0
TP/FP11
ST03-0
BH08
ST03-1
TP05
ST04-0/FP04
BH09
ST01-0
BH07
TP/FP06
ST01-1
ST02A-1
ST02B-0
ST02A-0
ST02B-1
TP07
BH06
ST05-1
BH10
RC02
TP08
SA08
ST05-0
ST06-1
ST06-0
ST08-1
BH11
SA09
TP09
ST08-0
ST07-1
ST07-0
Google Earth
N
40 m

2.2 Waste Classification

The Haz Waste Online Classification Engine, developed in the UK by One Touch Data Ltd, was used to determine the waste classification. This tool was developed specifically to establish whether waste is non-hazardous or hazardous and has been approved for use in Ireland by the Environmental Protection Agency. The full Waste Classification Report is in Appendix 3 and the results are summarised in Table 2.1.

Table 2.1 Waste Classification

Sample No.	Depth	Classification	LoW Code	Determinand
TP1	0.7	Non-Hazardous	17 09 04	-
TP1	1.3	Non-Hazardous	17 05 04	-
TP2	0.70	Hazardous	17 09 03	Zinc
TP2	1.40	Hazardous	17 09 03	Zinc
TP3	0.80	Non-Hazardous	17 09 04	-
TP4	0.80	Non-Hazardous	17 09 04	-
TP5	0.80	Non-Hazardous	17 09 04	-
TP5	2.50	Non-Hazardous	17 09 04	-
TP6	0.70	Non-Hazardous	17 09 04	-
TP7	0.70	Non-Hazardous	17 09 04	-
TP8	0.60	Non-Hazardous	17 09 04	-
TP9	0.70	Non-Hazardous	17 09 04	-
TP9	1.50	Non-Hazardous	17 05 04	-
TP10	0.70	Non-Hazardous	17 09 04	-
TP11	0.80	Non-Hazardous	17 09 04	-
BH1	1.0	Non-Hazardous	17 09 04	-
BH2	1.0	Non-Hazardous	17 09 04	-
BH3	2.0	Non-Hazardous	17 05 03	Zinc and Lead
BH4	1.0	Non-Hazardous	17 09 04	-
BH4	3.0	Non-Hazardous	17 05 04	-
BH5	1.0	Non-Hazardous	17 09 04	-
BH6	2.0	Non-Hazardous	17 09 04	-
BH7	1.0	Non-Hazardous	17 09 04	-
BH9	1.0	Non-Hazardous	17 09 04	-
BH10	1.0	Non-Hazardous	17 09 04	-
BH11	1.0	Non-Hazardous	17 09 04	-
BH11	2.5	Non-Hazardous	17 05 04	-
BH12	1.0	Non-Hazardous	17 09 04	-
BH13	1.0	Non-Hazardous	17 09 04	-

Asbestos was detected at non-hazardous levels (< 0.001%) in TP5 (0.80m).

Asbestos was not detected in any other of the samples tested.

The sample from BH3 (2.00m) is classified as hazardous for zinc and lead concentrations and the appropriate List of Waste Code is 17 05 03 (Soil and Stone containing hazardous substances).

The samples from TP2 (0.70m and 1.40m) are classified as hazardous for zinc concentrations and the appropriate List of Waste Code is 17 09 04 (Construction and Demolition Waste containing Hazardous Substances).

The samples from BH1 (2.00m), BH3 (1.00m), BH5 (1.00m), BH6 (2.00m), BH7 (1.00m), TP02 (1.20m), TP04 (0.30m), TP08 (0.40m), TP09 (1.00m and 2.10m), TP10 (1.30m), TP11 (1.20m) and TP12 (1.50m) are classified as non-hazardous and the appropriate List of Waste Code is 17 05 04 (Soil and Stone other than those mentioned in 17 05 03*).

All other samples are classified as non-hazardous and the appropriate List of Waste Code is 17 09 04 (Construction and Demolition Waste other than those mentioned in 17 09 03*).

2.3 Waste Acceptance Criteria

The results of the WAC testing are presented in Table 2.2-2.4, which includes for comparative purposes the WAC for Inert, Non Hazardous and Hazardous Waste Landfills pursuant to Article 16 of the EU Landfill Directive 1999/31/EC Annex II which establishes criteria and procedures for the acceptance of waste at landfills.

Antimony exceeds the inert WAC for TP2 (0.70m and 1.40m) and BH3 (2.00m), and the inert WAC increased limits for TP3 (0.80m), BH4 (1.00m), BH5 (1.00m) and BH6 (2.00m).

Total Organic Carbon (TOC) exceeds the inert WAC for TP2 (0.70m and 1.40m), TP5 (2.50m), TP7 (0.70m), BH2 (2.00m), BH7 (1.00m), BH9 (1.00m) and BH13 (1.00m), and the inert WAC increased limits for TP1 (0.70m), TP3 (0.80m), TP4 (0.80m), TP6 (0.70m), TP9 (0.70m), BH3 (2.00m), BH4 (1.00m), BH5 (1.00m) and BH6 (2.00m).

All other samples meet the inert WAC.

Table 2.2 WAC Results

Parameter	Unit	TP1	TP1	TP2	TP2	TP3	TP4	TP5	TP5	TP6	TP7	Inert Landfill	Inert Landfill Increased Limits	Non-Hazardous Landfill	Hazardous Landfill
Depth	**m**	**0.7**	**1.3**	**0.70**	**1.40**	**0.80**	**0.80**	**0.80**	**2.50**	**0.70**	**0.70**				
Antimony	mg/kg	0.024	< 0.0050	0.13	0.087	0.26	0.051	0.036	0.047	0.036	0.029	0.06	0.18	0.7	5
Arsenic	mg/kg	0.043	0.0044	0.069	0.092	0.12	0.070	0.14	0.12	0.25	0.21	0.5	1.5	2	25
Barium	mg/kg	0.061	< 0.050	0.058	0.051	0.080	0.060	< 0.050	0.052	< 0.050	< 0.050	20	20	100	300
Cadmium	mg/kg	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.04	0.04	1	5
Chromium	mg/kg	< 0.0050	< 0.0050	0.0089	0.0099	0.0096	0.0094	0.024	0.0062	< 0.0050	< 0.0050	0.5	0.5	10	70
Copper	mg/kg	0.023	0.0071	0.030	0.027	0.042	0.057	0.026	0.031	0.034	0.039	2	2	50	100
Lead	mg/kg	0.035	< 0.0050	0.024	0.011	0.043	0.032	0.0053	0.020	0.031	0.041	0.5	0.5	10	50
Molybdenum	mg/kg	0.0074	0.018	0.046	0.040	0.026	0.063	0.052	0.023	0.046	0.016	0.5	1.5	10	30
Nickel	mg/kg	0.0084	< 0.0050	0.0076	0.0081	0.0080	0.0077	0.0053	0.0078	0.016	0.017	0.4	0.4	10	40
Selenium	mg/kg	< 0.0050	< 0.0050	0.0059	0.0059	< 0.0050	0.0085	0.011	0.0061	0.0062	< 0.0050	0.1	0.3	0.5	7
Zinc	mg/kg	0.37	0.26	0.21	0.18	0.22	0.19	0.18	0.23	0.18	0.20	4	4	50	200
Mercury	mg/kg	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.00069	< 0.00050	< 0.00050	0.00057	0.00066	0.01	0.01	0.2	2
Phenol	mg/kg	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	1	1	NE	NE
Fluoride	mg/kg	1.1	< 1.0	1.5	1.4	4.0	3.5	1.3	1.3	2.0	1.7	10	10	150	500
Chloride	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	12	800	2,400	15,000	25,000
Sulphate	mg/kg	29	18	470	510	280	290	660	320	67	< 10	1000*	3,000	20000*	50,000
DOC **	mg/kg	54	< 50	54	< 50	< 50	< 50	< 50	< 50	< 50	65	500	500	800	1,000
pH	pH units	8.5	8.1	7.9	8.0	8.1	8.1	8.5	8.3	8.1	8.3	NE	NE	NE	NE
TDS ***	mg/kg	340	190	1100	1300	940	950	1400	900	770	550	4,000	12,000	60,000	100,000
TOC	%	7.6	2.0	5.4	5.7	12	11	2.6	3.8	8.0	4.9	3	6	NE	6
Benzene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
Toluene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
Ethylbenzene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
m/p-Xylene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
o-Xylene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
PCB Total of 7	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1	1	NE	NE
Total 17 PAH's	mg/kg	15	< 1.0	25	17	6.2	21	4.5	34	4.3	1.8	NE	100	NE	NE
Mineral Oil	mg/kg	< 10	< 10	< 10	18	< 10	< 10	< 10	< 10	< 10	< 10	500	500	NE	NE
Asbestos	% mass	NAD	NAD	NAD	NAD	NAD	NAD	< 0.001	NAD	NAD	NAD	NE	NE	NE	NE

NAD denotes No Asbestos Detected

* denotes sulphate level exceeding inert waste limit may be considered as complying if the TDS value does not exceed 6,000mg/kg at L/S = 10l/kg.

** denotes a higher limit may be accepted provided the DOC alternative values of 500mg/kg is achieved

*** denotes TDS. The values for TDS can be used to sulphate and chloride.

PAH over 1mg/kg and Mineral Oil over 50 mg/kg exceeds limit at soil recovery site in Ireland

Table 2.3 WAC Results

Parameter	Unit	TP8	TP9	TP9	TP10	TP11	BH1	BH2	BH3	BH4	BH4	Inert Landfill	Inert Landfill Increased Limits	Non-Hazardous Landfill	Hazardous Landfill
Depth	**m**	**0.60**	**0.70**	**1.50**	**0.70**	**0.80**	**1.0**	**1.0**	**2.0**	**1.0**	**3.0**				
Antimony	mg/kg	0.048	0.039	0.015	0.014	0.010	0.027	0.050	0.12	0.49	0.0072	0.06	0.18	0.7	5
Arsenic	mg/kg	0.14	0.13	0.079	0.028	0.048	0.021	0.049	0.17	0.046	0.0021	0.5	1.5	2	25
Barium	mg/kg	< 0.050	0.092	< 0.050	< 0.050	< 0.050	< 0.050	0.15	0.054	0.22	< 0.050	20	20	100	300
Cadmium	mg/kg	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.04	0.04	1	5
Chromium	mg/kg	0.0081	0.053	< 0.0050	0.0063	< 0.0050	< 0.0050	0.014	0.022	0.024	< 0.0050	0.5	0.5	10	70
Copper	mg/kg	0.037	0.044	0.013	0.0096	0.013	0.013	0.038	0.044	0.064	0.0079	2	2	50	100
Lead	mg/kg	0.011	0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.065	0.033	0.17	< 0.0050	0.5	0.5	10	50
Molybdenum	mg/kg	0.035	0.018	0.071	0.14	0.054	0.15	0.024	0.065	0.021	0.21	0.5	1.5	10	30
Nickel	mg/kg	0.017	0.019	0.0050	< 0.0050	0.0069	< 0.0050	0.0095	0.013	0.013	< 0.0050	0.4	0.4	10	40
Selenium	mg/kg	0.0071	< 0.0050	< 0.0050	0.011	0.013	0.0068	0.0068	0.016	0.0054	< 0.0050	0.1	0.3	0.5	7
Zinc	mg/kg	0.41	0.37	0.19	0.17	0.39	0.38	0.24	0.22	0.38	0.24	4	4	50	200
Mercury	mg/kg	< 0.00050	0.0011	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.0017	< 0.00050	< 0.00050	0.01	0.01	0.2	2
Phenol	mg/kg	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	1	1	NE	NE
Fluoride	mg/kg	1.1	3.2	1.5	1.8	1.2	1.1	2.3	2.1	3.4	2.5	10	10	150	500
Chloride	mg/kg	< 10	< 10	< 10	< 10	21	< 10	12	24	24	10	800	2,400	15,000	25,000
Sulphate	mg/kg	57	43	11	15	750	58	47	510	180	110	1000*	3,000	20000*	50,000
DOC **	mg/kg	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	53	< 50	500	500	800	1,000
pH	pH units	8.0	8.1	8.5	8.8	7.9	8.6	8.4	8.4	8.2	8.7	NE	NE	NE	NE
TDS ***	mg/kg	630	670	530	510	1500	480	620	1200	1000	640	4,000	12,000	60,000	100,000
TOC	%	2.6	8.1	2.3	2.1	1.6	1.9	5.2	8.1	8.5	0.41	3	6	NE	6
Benzene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
Toluene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
Ethylbenzene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
m/p-Xylene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
o-Xylene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
PCB Total of 7	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.32	< 0.10	< 0.10	< 0.10	1	1	NE	NE
Total 17 PAH's	mg/kg	< 1.0	55	2.6	1.3	< 1.0	< 1.0	22	7.7	73	< 1.0	NE	100	NE	NE
Mineral Oil	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	17	17	19	< 10	500	500	NE	NE
Asbestos	% mass	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NE	NE	NE	NE

NAD denotes No Asbestos Detected

* denotes sulphate level exceeding inert waste limit may be considered as complying if the TDS value does not exceed 6,000mg/kg at L/S = 10l/kg.

** denotes a higher limit may be accepted provided the DOC alternative values of 500mg/kg is achieved

*** denotes TDS. The values for TDS can be used to sulphate and chloride.

PAH over 1mg/kg and Mineral Oil over 50 mg/kg exceeds limit at soil recovery site in Ireland

Table 2.4 WAC Results

Parameter	Unit	BH5	BH6	BH7	BH9	BH10	BH11	BH11	BH12	BH13	Inert Landfill	Inert Landfill Increased Limits	Non-Hazardous Landfill	Hazardous Landfill
Depth	**m**	**1.0**	**2.0**	**1.0**	**1.0**	**1.0**	**1.0**	**2.5**	**1.0**	**1.0**				
Antimony	mg/kg	2.5	0.42	0.055	0.027	0.023	0.019	0.013	0.0099	< 0.0050	0.06	0.18	0.7	5
Arsenic	mg/kg	0.038	0.17	0.060	0.11	0.13	0.18	0.053	0.0093	0.015	0.5	1.5	2	25
Barium	mg/kg	0.26	< 0.050	0.15	< 0.050	< 0.050	0.054	< 0.050	< 0.050	< 0.050	20	20	100	300
Cadmium	mg/kg	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.04	0.04	1	5
Chromium	mg/kg	< 0.0050	0.0051	0.013	0.028	0.0052	0.0065	0.046	< 0.0050	< 0.0050	0.5	0.5	10	70
Copper	mg/kg	0.059	0.031	0.039	0.027	0.028	0.041	0.024	0.0083	0.012	2	2	50	100
Lead	mg/kg	0.21	0.063	0.075	0.018	0.011	0.025	0.014	< 0.0050	< 0.0050	0.5	0.5	10	50
Molybdenum	mg/kg	0.059	0.031	0.014	0.055	0.055	0.070	0.13	0.043	0.011	0.5	1.5	10	30
Nickel	mg/kg	0.011	0.014	0.0096	0.0090	0.012	0.023	0.013	< 0.0050	< 0.0050	0.4	0.4	10	40
Selenium	mg/kg	0.0066	< 0.0050	< 0.0050	< 0.0050	0.0097	0.0081	0.0057	< 0.0050	< 0.0050	0.1	0.3	0.5	7
Zinc	mg/kg	0.23	0.23	0.26	0.21	0.21	0.23	0.33	0.25	0.23	4	4	50	200
Mercury	mg/kg	0.0028	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.01	0.01	0.2	2
Phenol	mg/kg	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	1	1	NE	NE
Fluoride	mg/kg	2.9	3.1	1.9	1.8	2.1	2.8	2.0	< 1.0	< 1.0	10	10	150	500
Chloride	mg/kg	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	800	2,400	15,000	25,000
Sulphate	mg/kg	240	14	43	85	86	100	47	61	360	1000*	3,000	20000*	50,000
DOC **	mg/kg	< 50	< 50	260	69	88	66	120	< 50	< 50	500	500	800	1,000
pH	pH units	10.2	8.4	8.4	8.5	9.5	8.4	9.0	8.5	8.0	NE	NE	NE	NE
TDS ***	mg/kg	860	640	620	620	710	720	680	440	700	4,000	12,000	60,000	100,000
TOC	%	12	14	5.3	4.4	1.6	2.3	2.0	1.9	4.7	3	6	NE	6
Benzene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
Toluene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
Ethylbenzene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
m/p-Xylene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
o-Xylene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
PCB Total of 7	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1	1	NE	NE
Total 17 PAH's	mg/kg	64	1.4	24	10	< 1.0	< 1.0	5.3	< 1.0	< 1.0	NE	100	NE	NE
Mineral Oil	mg/kg	13	12	16	< 10	< 10	16	< 10	< 10	< 10	500	500	NE	NE
Asbestos	% mass	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NE	NE	NE	NE

NAD denotes No Asbestos Detected

* denotes sulphate level exceeding inert waste limit may be considered as complying if the TDS value does not exceed 6,000mg/kg at L/S = 10l/kg.

** denotes a higher limit may be accepted provided the DOC alternative values of 500mg/kg is achieved

*** denotes TDS. The values for TDS can be used to sulphate and chloride.

PAH over 1mg/kg and Mineral Oil over 50 mg/kg exceeds limit at soil recovery site in Ireland

2.4 Waste Management Options

The EPA has issued guidance on acceptance criteria for a range of parameters for soil recovery sites. This includes;

- Metals (solid conc. not leachability) in soil and stone (including As, Cd, Cr, Cu, Hg, Ni, Pub, Zn);
- Total organic carbon in soil and stone;
- Total BTEX (benzene, toluene, ethylbenzene, xylenes) in soil and stone;
- Mineral oil in soil and stone;
- Polycyclic aromatic hydrocarbons (PAHs) in soil and stone;
- Polychlorinated Biphenyls (PCBs) in soil and stone;
- Asbestos fibres in soil and stone.

The guidance requires that soils from brownfield sites should not exceed the limits for the parameters specified in Table 2.3 and 2.4. For metals limits have been specified for a range of soil types nationally separated into six domain areas.

The soil recovery limits do not apply to samples of Made Ground which are classified as 17 09 04 or to samples which exceed the inert WAC.

Table 2.3 Soil Recovery Site Criteria

Parameter	Limit for Soil Recovery Sites
Total BTEX	0.05 mg/kg
Mineral Oil	50 mg/kg
Total PAHs	1 mg/kg
Total PCBs	0.05 mg/kg

Material from this site is not suitable for removal to soil recovery facilities due to the nature of the Made Ground and the presence of PAH's seen in samples from across the site.

The soil and stone cannot be sent to soil recovery sites if the trigger levels for a particular domain are exceeded. There is however some flexibility in applying the limits. A derogation applies where up to three parameters can exceed the limit for a sample provided the concentration in the samples is no more than 1.5 times the trigger level. The site which is subject to this investigation is located in Domain 2 and the trigger levels are listed in Table 2.4.

Table 2.4 Soil Recovery Trigger Levels

		Domain 2 Trigger Level	1.5 times Trigger Level
Arsenic	**mg/kg**	24.90	37.35
Cadmium	**mg/kg**	3.28	4.92
Chromium	**mg/kg**	50.30	75.45
Copper	**mg/kg**	63.50	95.25
Mercury	**mg/kg**	0.36	0.54
Nickel	**mg/kg**	61.90	92.85
Lead	**mg/kg**	86.10	129.15
Zinc	**mg/kg**	197.00	295.5

Waste management options are summarised on Table 2.5. All are subject to approval of the waste management facility operators. Class B-1 wastes are suitable for recovery/disposal to inert landfill. Class B-2 wastes are suitable for recovery/disposal to inert landfill with increased limits. Class C wastes are suitable for disposal to Non-Hazardous Landfill. Class C-1 contain asbestos (< 0.001%) and are suitable for disposal to non-hazardous landfill authorized to accept such material outside the Republic of Ireland. Class D wastes are suitable for disposal to hazardous landfill.

Table 2.5 Waste Management Options

Sample No.	Depth	Classification	LoW Code	Determinand	Category
TP1	0.7	Non-Hazardous	17 09 04	-	C
TP1	1.3	Non-Hazardous	17 05 04	-	B-1
TP2	0.70	Hazardous	17 09 03	Zinc	D
TP2	1.40	Hazardous	17 09 03	Zinc	D
TP3	0.80	Non-Hazardous	17 09 04	-	C
TP4	0.80	Non-Hazardous	17 09 04	-	C
TP5	0.80	Non-Hazardous	17 09 04	-	C-1
TP5	2.50	Non-Hazardous	17 09 04	-	B-2
TP6	0.70	Non-Hazardous	17 09 04	-	C
TP7	0.70	Non-Hazardous	17 09 04	-	B-2
TP8	0.60	Non-Hazardous	17 09 04	-	B-1
TP9	0.70	Non-Hazardous	17 09 04	-	C
TP9	1.50	Non-Hazardous	17 05 04	-	B-1
TP10	0.70	Non-Hazardous	17 09 04	-	B-1
TP11	0.80	Non-Hazardous	17 09 04	-	B-1
BH1	1.0	Non-Hazardous	17 09 04	-	B-1
BH2	1.0	Non-Hazardous	17 09 04	-	B-2
BH3	2.0	Non-Hazardous	17 05 03	Zinc and Lead	D
BH4	1.0	Non-Hazardous	17 09 04	-	C
BH4	3.0	Non-Hazardous	17 05 04	-	B-1
BH5	1.0	Non-Hazardous	17 09 04	-	C
BH6	2.0	Non-Hazardous	17 09 04	-	C
BH7	1.0	Non-Hazardous	17 09 04	-	B-2
BH9	1.0	Non-Hazardous	17 09 04	-	B-2
BH10	1.0	Non-Hazardous	17 09 04	-	B-1
BH11	1.0	Non-Hazardous	17 09 04	-	B-1
BH11	2.5	Non-Hazardous	17 05 04	-	B-1
BH12	1.0	Non-Hazardous	17 09 04	-	B-1
BH13	1.0	Non-Hazardous	17 09 04	-	B-2

B-1	Suitable for disposal/recovery to Inert Landfill
B-2	Suitable for disposal/recovery to Inert Landfill with increased limits
C	Suitable for disposal to Non-Hazardous Landfill
C-1	Meets Non-Haz. Contains Asbestos (< 0.001%). Suitable for disposal outside the Republic of Ireland
D	Suitable for disposal to Hazardous Landfill

3 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

3.1.1 *Waste Classification*

Asbestos was detected at non-hazardous levels (< 0.001%) in TP5 (0.80m).

Asbestos was not detected in any other of the samples tested.

The sample from BH3 (2.00m) is classified as hazardous for zinc and lead concentrations and the appropriate List of Waste Code is 17 05 03 (Soil and Stone containing hazardous substances).

The samples from TP2 (0.70m and 1.40m) are classified as hazardous for zinc concentrations and the appropriate List of Waste Code is 17 09 04 (Construction and Demolition Waste containing Hazardous Substances).

The samples from BH1 (2.00m), BH3 (1.00m), BH5 (1.00m), BH6 (2.00m), BH7 (1.00m), TP02 (1.20m), TP04 (0.30m), TP08 (0.40m), TP09 (1.00m and 2.10m), TP10 (1.30m), TP11 (1.20m) and TP12 (1.50m) are classified as non-hazardous and the appropriate List of Waste Code is 17 05 04 (Soil and Stone other than those mentioned in 17 05 03*).

All other samples are classified as non-hazardous and the appropriate List of Waste Code is 17 09 04 (Construction and Demolition Waste other than those mentioned in 17 09 03*).

If the soils have to be removed from the site the recovery/disposal options are outlined in Section 2.4.

3.2 Recommendations

OCM recommend that a copy of this report be provided in full to the relevant waste management facilities to which the made ground and subsoils will be consigned to confirm its suitability for acceptance.

Appendix 1

Trial Pit and Borehole Logs

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

BOREHOLE NO. **BH01**
SHEET Sheet 1 of 1

CO-ORDINATES 716,567.59 E, 735,776.60 N
GROUND LEVEL (mOD) 3.86

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm) 200
BOREHOLE DEPTH (m) 5.50

DATE COMMENCED 09/01/2024
DATE COMPLETED 10/01/2024

CLIENT NDFA
ENGINEER MORCE

SPT HAMMER REF. NO. PT1
ENERGY RATIO (%) 78.21

BORED BY PT
PROCESSED BY FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising black sandy gravelly Clay with rubble)									
1					AA210240	B	1.00		N = 6 (1, 1, 1, 1, 1, 3)	
			2.26	1.60						
	Stiff grey/brown sandy slightly gravelly SILT/CLAY		1.86	2.00						
2	Dense grey/brown very clayey GRAVEL (Possible very gravelly Clay)				AA210241	B	2.00		N = 26 (3, 5, 5, 7, 5, 9)	
3			0.66	3.20	AA210242	B	3.00		N = 18 (6, 6, 5, 4, 4, 5)	
	Stiff brown sandy gravelly CLAY		0.26	3.60						
4	Very stiff black sandy gravelly CLAY with occasional cobbles				AA210243	B	4.00		N = 31 (4, 5, 5, 7, 8, 11)	
5					AA210244	B	5.00		N = 50 (6, 9, 14, 12, 14, 10)	
			-1.64	5.50						
6	Obstruction End of Borehole at 5.50 m									
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
2.40	3.10	1.5	
5.10	5.20	0.5	
5.40	5.50	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

BOREHOLE NO. **BH02**
SHEET Sheet 1 of 1

CO-ORDINATES 716,574.21 E, 735,758.92 N
GROUND LEVEL (mOD) 4.07

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm) 200
BOREHOLE DEPTH (m) 6.80

DATE COMMENCED 09/01/2024
DATE COMPLETED 09/01/2024

CLIENT NDFA
ENGINEER MORCE

SPT HAMMER REF. NO. PT1
ENERGY RATIO (%) 78.21

BORED BY PT
PROCESSED BY FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown sandy gravelly Clay with rubble)									
1					AA210233	B	1.00		N = 7 (2, 2, 2, 1, 2, 2)	
2			1.87	2.20	AA210234	B	2.00		N = 23 (3, 4, 4, 7, 6, 6)	
	Medium dense grey/brown very clayey GRAVEL (Possible very gravelly Clay)		1.37	2.70						
	Stiff brown sandy gravelly CLAY									
3					AA210235	B	3.00		N = 21 (3, 3, 4, 4, 5, 8)	
4			-0.23	4.30	AA210236	B	4.00		N = 27 (4, 4, 5, 7, 7, 8)	
	Very stiff black sandy gravelly CLAY with occasional cobbles									
5					AA210237	B	5.00		N = 46 (4, 5, 7, 9, 14, 16)	
6					AA210238	B	6.00		N = 48 (5, 9, 10, 12, 12, 14)	
					AA210239	B	6.50		N = 50/225 mm (9, 16, 20, 22, 8)	
			-2.73	6.80						
7	Obstruction End of Borehole at 6.80 m									
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
1.90	2.20	1	
6.60	6.80	2	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

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GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

BOREHOLE NO. **BH03**
SHEET Sheet 1 of 1

CO-ORDINATES 716,588.57 E, 735,761.87 N
GROUND LEVEL (mOD) 4.17

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm) 200
BOREHOLE DEPTH (m) 5.90

DATE COMMENCED 08/01/2024
DATE COMPLETED 08/01/2024

CLIENT NDFA
ENGINEER MORCE

SPT HAMMER REF. NO. PT1
ENERGY RATIO (%) 78.21

BORED BY PT
PROCESSED BY FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising black very gravelly Clay with frequent brick and concrete fragments									
1					AA210228	B	1.00		N = 31 (3, 3, 6, 7, 8, 10)	
2			2.07	2.10	AA210229	B	2.00		N = 15 (2, 3, 3, 5, 3, 4)	
	Firm brown very gravelly SILT/CLAY		1.47	2.70						
3	Stiff brown sandy gravelly SILT/CLAY with occasional cobbles				AA210230	B	3.00		N = 20 (3, 3, 4, 5, 5, 6)	
			0.27	3.90						
4	Very stiff black sandy gravelly CLAY with occasional cobbles				AA210231	B	4.00		N = 32 (5, 6, 6, 8, 9, 9)	
5					AA210232	B	5.00		N = 40 (7, 9, 9, 10, 4, 17)	
			-1.73	5.90						
6	Obstruction End of Borehole at 5.90 m								N = 50/150 mm (25, 25, 25)	
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
1.30	1.50	1	
5.70	5.90	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

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GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

BOREHOLE NO. BH04
SHEET Sheet 1 of 1

CO-ORDINATES 716,593.45 E, 735,744.14 N
GROUND LEVEL (mOD) 4.23

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm) 200
BOREHOLE DEPTH (m) 7.60

DATE COMMENCED 05/01/2024
DATE COMPLETED 05/01/2024

CLIENT NDFA
ENGINEER MORCE

SPT HAMMER REF. NO. PT1
ENERGY RATIO (%) 78.21

BORED BY PT
PROCESSED BY FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown/black sandy gravelly Clay with rubble									
1					AA210221	B	1.00		N = 8 (2, 3, 2, 3, 2, 1)	
2			2.13	2.10	AA210222	B	2.00		N = 8 (1, 0, 1, 1, 3, 3)	
	Soft grey/brown very sandy gravelly SILT/CLAY		1.53	2.70						
3	Firm to stiff brown sandy gravelly SILT/CLAY with occasional cobbles				AA210223	B	3.00		N = 14 (2, 3, 3, 3, 4, 4)	
4					AA210224	B	4.00		N = 20 (3, 4, 4, 5, 5, 6)	
			-0.17	4.40						
5	Very stiff black sandy gravelly CLAY with some cobbles				AA210225	B	5.00		N = 34 (4, 6, 6, 8, 9, 11)	
6					AA210226	B	6.00		N = 41 (4, 7, 9, 10, 10, 12)	
7					AA210227	B	7.00		N = 46 (3, 4, 8, 14, 12, 12)	
			-3.37	7.60						
	Obstruction								N = 50/75 mm (25, 50)	
8	End of Borehole at 7.60 m									
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
7.40	7.60	2	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.50	1.50	No	No	20	Seepage

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

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GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**BOREHOLE NO.**	**BH05**
		SHEET	Sheet 1 of 1
CO-ORDINATES	716,606.93 E 735,736.60 N	**RIG TYPE**	Dando 2000
		BOREHOLE DIAMETER (mm)	200
GROUND LEVEL (mOD)	4.15	**BOREHOLE DEPTH (m)**	5.20
		DATE COMMENCED	04/01/2024
		DATE COMPLETED	04/01/2024
CLIENT	NDFA	**SPT HAMMER REF. NO.**	PT1
		BORED BY	PT
ENGINEER	MORCE	**ENERGY RATIO (%)**	78.21
		PROCESSED BY	FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown gravelly Clay with frequent rubble									
1					AA210215	B	1.00		N = 7 (1, 1, 2, 1, 2, 2)	
2					AA210216	B	2.00		N = 10 (1, 2, 1, 2, 2, 5)	
			1.85	2.30						
	Firm to stiff grey/brown very sandy gravelly SILT/CLAY									
3					AA210217	B	3.00		N = 19 (3, 3, 4, 4, 5, 6)	
			0.05	4.10						
4					AA210218	B	4.00		N = 37 (4, 6, 7, 9, 9, 12)	
	Very stiff black sandy gravelly CLAY with occasional cobbles									
5			-1.05	5.20	AA210219	B	5.00		N = 50/150 mm (11, 14, 27, 23)	
	Obstruction End of Borehole at 5.20 m									
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
4.60	4.70	0.5	
5.00	5.20	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.50	1.50	No	No	20	Seepage

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

BOREHOLE NO. **BH06**
SHEET Sheet 1 of 1

CO-ORDINATES 716,622.74 E, 735,728.70 N
GROUND LEVEL (mOD) 4.17

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm) 200
BOREHOLE DEPTH (m) 6.10

DATE COMMENCED 03/01/2024
DATE COMPLETED 04/01/2024

CLIENT NDFA
ENGINEER MORCE

SPT HAMMER REF. NO. PT1
ENERGY RATIO (%) 78.21

BORED BY PT
PROCESSED BY FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown Clay with frequent rubble									
1					AA210210	B	1.00		N = 9 (1, 2, 2, 2, 3, 2)	
2					AA210211	B	2.00		N = 10 (2, 2, 2, 3, 2, 3)	
			1.77	2.40						
	Medium dense grey/brown very clayey GRAVEL (Possible very gravelly Clay)		1.17	3.00						
3	Firm to stiff brown sandy gravelly CLAY				AA210212	B	3.00		N = 17 (2, 3, 3, 4, 4, 6)	
4					AA210213	B	4.00		N = 25 (2, 4, 4, 6, 7, 8)	
			-0.13	4.30						
	Very stiff black sandy gravelly CLAY with occasional cobbles									
5					AA210214	B	5.00		N = 62 (8, 15, 15, 17, 18, 12)	
6			-1.93	6.10	AA210215	B	6.00		N = 50/225 mm (11, 14, 15, 16, 19)	
	Obstruction End of Borehole at 6.10 m									
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
5.50	5.70	1	
6.00	6.10	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
5.20	5.20	No	4.70	20	Slow

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**BOREHOLE NO.**	**BH07**
		SHEET	Sheet 1 of 1
CO-ORDINATES	716,634.89 E 735,750.89 N	**RIG TYPE**	Dando 2000
		BOREHOLE DIAMETER (mm)	200
GROUND LEVEL (mOD)	3.87	**BOREHOLE DEPTH (m)**	5.30
		DATE COMMENCED	03/01/2024
		DATE COMPLETED	03/01/2024
CLIENT	NDFA	**SPT HAMMER REF. NO.**	PT1
		BORED BY	PT
ENGINEER	MORCE	**ENERGY RATIO (%)**	78.21
		PROCESSED BY	FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown Clay with rubble									
1					AA210206	B	1.00		N = 4 (1, 0, 1, 1, 1, 1)	
			2.07	1.80						
2	Medium dense grey/brown clayey GRAVEL (Possible very gravelly Clay)				AA210207	B	2.00		N = 36 (6, 8, 8, 9, 8, 11)	
			1.17	2.70						
3	Firm brown sandy very gravelly CLAY				AA210208	B	3.00		N = 15 (1, 2, 3, 4, 4, 4)	
			0.57	3.30						
4	Very stiff black sandy gravelly CLAY with occasional cobbles				AA210209	B	4.00		N = 52 (5, 4, 10, 12, 12, 18)	
5			-1.43	5.30					N = 50/75 mm (25, 50)	
	Obstruction End of Borehole at 5.30 m									
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
2.20	2.40	0.75	
5.10	5.30	2	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.30	2.30	2.70	No	20	Seepage

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

BOREHOLE NO. **BH08**
SHEET Sheet 1 of 1

CO-ORDINATES 716,640.65 E, 735,773.51 N
GROUND LEVEL (mOD) 4.12

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm) 200
BOREHOLE DEPTH (m) 6.50

DATE COMMENCED 10/01/2024
DATE COMPLETED 11/01/2024

CLIENT NDFA
ENGINEER MORCE

SPT HAMMER REF. NO. PT1
ENERGY RATIO (%) 78.21

BORED BY PT
PROCESSED BY FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown gravelly Clay with frequent rubble									
1					AA210245	B	1.00		N = 26 (4, 4, 4, 5, 8, 9)	
2			1.82	2.30	AA210246	B	2.00		N = 28 (3, 4, 6, 6, 7, 9)	
	Medium dense grey/brown very clayey GRAVEL (Possible very gravelly Clay)									
3					AA210247	B	3.00		N = 15 (3, 3, 3, 4, 4, 4)	
			0.72	3.40						
	Firm dark brown very sandy SILT/CLAY		0.32	3.80						
4	Medium dense grey very sandy GRAVEL (Blowing noted)				AA210248	B	4.00		N = 27 (3, 5, 7, 8, 7, 5)	
			-0.38	4.50						
	Very stiff black very sandy gravelly CLAY with some cobbles									
5					AA210249	B	5.00		N = 36 (4, 6, 7, 9, 9, 11)	
6					AA210250	B	6.00		N = 60 (8, 12, 12, 15, 16, 17)	
			-2.38	6.50						
	Obstruction End of Borehole at 6.50 m									
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
1.50	1.70	1	
6.30	6.50	2	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3.90	3.90	4.10	2.80	20	Moderate
4.20	4.20	No	1.20	20	Rapid

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**BOREHOLE NO.**	**BH09**
		SHEET	Sheet 1 of 1
CO-ORDINATES	716,662.08 E 735,757.21 N	**RIG TYPE**	Dando 2000
		BOREHOLE DIAMETER (mm)	200
GROUND LEVEL (mOD)	4.77	**BOREHOLE DEPTH (m)**	5.80
		DATE COMMENCED	21/12/2023
		DATE COMPLETED	21/12/2023
CLIENT	NDFA	**SPT HAMMER REF. NO.**	PT1
		BORED BY	PT
ENGINEER	MORCE	**ENERGY RATIO (%)**	78.21
		PROCESSED BY	FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising Clay with rubble									
1					AA210202	B	1.00		N = 4 (1, 1, 1, 1, 1, 1)	
2			2.67	2.10	AA210203	B	2.00		N = 25 (3, 5, 6, 6, 7, 6)	
	Firm brown very gravelly SILT/CLAY		2.17	2.60						
3	Firm grey/brown slightlly sandy slightly gravelly SILT/CLAY				AA210204	B	3.00		N = 13 (3, 4, 4, 3, 3, 3)	
			0.97	3.80						
4	Stiff dark brown very sandy gravelly silty CLAY		0.67	4.10	AA210205	B	4.00		N = 44 (3, 6, 8, 10, 11, 15)	
	Very stiff black sandy gravelly CLAY with occasional cobbles									
5					AA210206	B	5.00		N = 56 (7, 12, 12, 14, 16, 14)	
			-1.03	5.80						
6	Obstruction End of Borehole at 5.80 m								N = 50/75 mm (25, 21, 50)	
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
4.40	4.60	1	
5.70	5.80	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3.40	3.40	4.10	3.00	20	Slow

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS 2.5hrs moving rig into position due to restricted access. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**BOREHOLE NO.**	**BH10**
		SHEET	Sheet 1 of 1
CO-ORDINATES	716,674.02 E 735,735.43 N	**RIG TYPE**	Dando 2000
		BOREHOLE DIAMETER (mm)	200
GROUND LEVEL (mOD)	3.52	**BOREHOLE DEPTH (m)**	5.40
		DATE COMMENCED	20/12/2023
		DATE COMPLETED	20/12/2023
CLIENT	NDFA	**SPT HAMMER REF. NO.**	PT1
		BORED BY	PT
ENGINEER	MORCE	**ENERGY RATIO (%)**	78.21
		PROCESSED BY	FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown sandy gravelly Clay with brick fragments									
1					AA207646	B	1.00		N = 7 (1, 2, 2, 2, 2, 1)	
2			1.42	2.10	AA207647	B	2.00		N = 12 (1, 0, 2, 2, 3, 5)	
	Firm grey/brown sandy slightly gravelly SILT/CLAY		1.12	2.40						
	Medium dense grey/brown silty sandy GRAVEL		0.42	3.10	AA207648	B	3.00		N = 45 (8, 11, 12, 15, 10, 8)	
3	Very stiff black sandy gravelly CLAY with occasional cobbles									
4					AA207649	B	4.00		N = 53 (6, 8, 10, 13, 14, 16)	
5					AA207650	B	5.00		N = 50/150 mm (11, 14, 23, 27)	
			-1.88	5.40						
6	Obstruction End of Borehole at 5.40 m									
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
4.30	4.50	1.25	
5.30	5.40	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.90	2.90	3.10	2.50	20	Slow

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS 4hrs moving rig into position due to restricted access. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

BOREHOLE NO. **BH11**
SHEET Sheet 1 of 1

CO-ORDINATES 716,688.61 E, 735,760.51 N
GROUND LEVEL (mOD) 3.50

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm) 200
BOREHOLE DEPTH (m) 4.00

DATE COMMENCED 11/01/2024
DATE COMPLETED 12/01/2024

CLIENT NDFA
ENGINEER MORCE

SPT HAMMER REF. NO. PT1
ENERGY RATIO (%) 78.21

BORED BY PT
PROCESSED BY FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown gravelly Clay with frequent rubble									
					AA220201	B	1.00		N = 8 (1, 1, 2, 2, 2, 2)	
			1.50	2.00						
2	Medium dense grey/brown very clayey GRAVEL - Strong hydrocarbon odour noted. (Possible very gravelly Clay)				AA220202	B	2.00		N = 16 (2, 3, 3, 3, 4, 6)	
						W	2.50			
3			0.30	3.20	AA220203	B	3.00		N = 50 (9, 12, 12, 14, 14, 10)	
	Very stiff black gravelly CLAY with some cobbles				A220204	B	3.50			
			-0.50	4.00						
4	Obstruction End of Borehole at 4.00 m								N = 50/225 mm (8, 12, 16, 15, 19)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
2.70	2.80	1	
3.80	4.00	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.50	2.50	No	2.00	20	Slow

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out. Strong hydrocarbon odour noted from 2.20m.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**BOREHOLE NO.**	**BH12**
		SHEET	Sheet 1 of 1
CO-ORDINATES	716,664.09 E 735,793.26 N	**RIG TYPE**	Dando 2000
		BOREHOLE DIAMETER (mm)	200
GROUND LEVEL (mOD)	3.83	**BOREHOLE DEPTH (m)**	5.80
		DATE COMMENCED	19/12/2023
		DATE COMPLETED	19/12/2023
CLIENT	NDFA	**SPT HAMMER REF. NO.**	PT1
		BORED BY	PT
ENGINEER	MORCE	**ENERGY RATIO (%)**	78.21
		PROCESSED BY	FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising brown sandy gravelly Clay with rubble		2.83	1.00						
1	Firm brown sandy slightly gravelly SILT/CLAY		2.53	1.30	AA207642	B	1.00		N = 21 (3, 3, 4, 4, 5, 8)	
2	Medium dense grey/brown very clayey GRAVEL (Possible very gravelly Clay)		1.03	2.80	AA207643	B	2.00		N = 29 (4, 6, 8, 6, 7, 8)	
3	Stiff brown sandy slightly gravelly CLAY		0.23	3.60	AA207644	B	3.00		N = 17 (3, 3, 4, 4, 4, 5)	
4	Very stiff black very sandy gravelly silty CLAY		-1.97	5.80	AA207645	B	4.00		N = 37 (5, 8, 9, 1, 11, 16)	
5					AA207646	B	5.00		N = 51 (7, 10, 12, 15, 13, 11)	
6	Obstruction End of Borehole at 5.80 m								N = 50/75 mm (18, 25, 50)	
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
5.60	5.80	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.50	2.50	3.00	2.30	20	Slow

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

GEOTECHNICAL BORING RECORD

REPORT NUMBER 25000-3

CONTRACT NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas

BOREHOLE NO. **BH13**
SHEET Sheet 1 of 1

CO-ORDINATES 716,651.54 E, 735,795.92 N
GROUND LEVEL (mOD) 3.87

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm) 200
BOREHOLE DEPTH (m) 6.00

DATE COMMENCED 18/12/2023
DATE COMPLETED 19/12/2023

CLIENT NDFA
ENGINEER MORCE

SPT HAMMER REF. NO. PT1
ENERGY RATIO (%) 78.21

BORED BY PT
PROCESSED BY FC

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples: Ref. Number	Sample Type	Depth (m)	Recovery	Field Test Results	Standpipe Details
0	MADE GROUND comprising gravelly Clay									
1			2.57	1.30	AA207635	B	1.00		N = 25 (2, 3, 5, 5, 7, 8)	
	Medium dense grey/brown clayey GRAVEL (Possible very gravelly Clay)									
2			1.77	2.10	AA207636	B	2.00		N = 16 (2, 2, 3, 3, 5, 5)	
	Stiff bown very gravelly CLAY									
3					AA207637	B	3.00		N = 24 (3, 5, 5, 5, 7, 7)	
			0.37	3.50						
	Very stiff black sandy gravelly CLAY with occasional cobbles									
4					AA207638	B	4.00		N = 55 (5, 8, 9, 14, 16, 16)	
5					AA207639	B	5.00		N = 49 (6, 18, 10, 17, 12, 10)	
			-2.13	6.00						
6	Obstruction End of Borehole at 6.00 m				AA207640	B	6.00		N = 50/75 mm (18, 28, 50)	
7										
8										
9										

HARD STRATA BORING/CHISELLING

From (m)	To (m)	Time (h)	Comments
3.20	3.40	0.75	
5.80	6.00	1.5	

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike

GROUNDWATER PROGRESS

Date	Hole Depth	Casing Depth	Depth to Water	Comments

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

REMARKS Safety fencing erected. CAT scanned location and hand dug inspection pit carried out.

Sample Legend
D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)
UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP01**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,563.80 E 735,767.43 N
		DATE STARTED	28/11/2023
		DATE COMPLETED	28/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	3.86
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL		0.20	3.66						
MADE GROUND: Dark brown sandy slightly gravelly CLAY with red brick fragments and plastic. Sand is fine to medium. Gravel is fine to medium, subangular to subrounded.		0.60	3.26						
MADE GROUND: Brown sandy gravelly CLAY with red brick fragments and cobble-sized concrete fragments. Sand is fine to medium. Gravel is fine to medium, subangular to subrounded					AA198501	B	0.70-0.80		
1.0 Stiff light brown mottled dark brown slightly gravelly CLAY. Gravel is fine to medium, subangular to subrounded.		1.30	2.56		AA198502	B	1.30-1.40		
(Medium dense) Grey slightly clayey sandy GRAVEL with a low cobble content. Sand is fine to medium. Gravel is subrounded fine to coarse. Cobbles are subangular to subrounded.		1.90	1.96	1 (Moderate)					
2.0					AA198503	B	2.20-2.30		
3.0 End of Trial Pit at 3.00m		3.00	0.86						

Groundwater Conditions
Water strike at 2.0m

Stability
Good

General Remarks
Pit ended due to water ingress

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP02**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,580.00 E 735,762.96 N
		DATE STARTED	28/11/2023
		DATE COMPLETED	28/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	4.12
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL									
		0.20	3.92						
MADE GROUND: Dark brown/grey very sandy gravelly CLAY with a low cobble content and red brick fragments, plastic and cobble-sized concrete fragments. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subangular to subrounded.		0.50	3.62						
MADE GROUND: Dark brown/grey very sandy gravelly CLAY with a low cobble content and red brick fragments, plastic and concrete fragments. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subangular to subrounded.					AA198504	B	0.70-0.80		
1.0									
					AA198505	B	1.40-1.50		
2.0 End of Trial Pit at 2.00m		2.00	2.12						
3.0									

Groundwater Conditions
Dry

Stability
Good

General Remarks
Slow progress from 1.0m bgl. Pit ended due to concrete slab obstruction.

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP03**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,597.94 E 735,754.43 N
		DATE STARTED	28/11/2023
		DATE COMPLETED	28/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	4.13
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL									
MADE GROUND: Dark grey clayey sandy GRAVEL with a low cobble and boulder content and red brick fragments. Sand is fine to medium. Gravel is subangular fine to medium. Cobbles are subangular. Boulders are subangular (up to 300mm).		0.20	3.93		AA198506	B	0.80-0.90		
1.0									
Stiff black sandy gravelly CLAY with a low cobble content. Sand is fine to medium. Gravel is subangular fine to medium. Cobbles are subangular.		1.30	2.83		AA198507	B	1.50-1.60		
2.0 Stiff grey mottled light brown sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to medium.		2.00	2.13		AA198508	B	2.40-2.50		
				1 (Moderate)					
Stiff brown sandy gravelly CLAY with a low cobble content. Sand is fine to medium. Gravel is subangular to subrounded fine to medium. Cobbles are subangular.		2.90	1.23						
3.0									
End of Trial Pit at 3.10m		3.10	1.03						

Groundwater Conditions
Water strike at 2.80m

Stability
Good

General Remarks

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP04**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,616.81 E 735,745.78 N
		DATE STARTED	28/11/2023
		DATE COMPLETED	28/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	3.92
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL									
MADE GROUND: Dark brown/black slightly clayey gravelly SAND with red brick fragments, plastic and cobble-sized concrete fragments. Sand is fine to medium. Gravel is subangular to subrounded fine to medium.		0.20	3.72		AA198509	B	0.80-0.90		
1.0 Stiff dark brown mottled light brown sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to meidum.		1.30	2.62		AA198510	B	1.50-1.60		
2.0 (Dense) Light brown/grey slightly clayey sandy GRAVEL with a medium cobble content. Sand is fine to medium. Gravel is subangular fine to medium. Cobbles are subangular.		1.90	2.02		AA198511	B	2.30-2.40		
(Dense) Grey clayey sandy GRAVEL with a medium cobble content. Sand is fine to medium. Gravel is subangular fine to coarse. Cobbles are subangular.		2.50	1.42		AA198512	B	2.70-2.80		
3.0 End of Trial Pit at 2.90m		2.90	1.02						

Groundwater Conditions
Dry

Stability
Good

General Remarks

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP05**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,631.44 E 735,763.85 N
		DATE STARTED	28/11/2023
		DATE COMPLETED	28/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	4.08
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	TOPSOIL		0.10	3.98						
	MADE GROUND: Dark brown gravelly SAND with a low cobble content and red brick fragments, plastic and cobble-sized concrete fragments. Sand is fine to medium. Gravel is subangular to subrounded fine to medium. Cobbles are subrounded.					AA198513	B	0.80-0.90		
1.0										
						AA198514	B	1.60-1.70		
2.0										
						AA198515	B	2.70-2.80		
3.0	End of Trial Pit at 3.00m		3.00	1.08						

Groundwater Conditions
Dry

Stability
Good

General Remarks

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP06**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,647.26 E 735,750.03 N
		DATE STARTED	29/11/2023
		DATE COMPLETED	29/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	4.11
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL		0.10	4.01						
MADE GROUND: Dark brown/black sandy slightly gravelly CLAY with red brick fragments. Sand is fine to medium. Gravel is subrounded fine to medium.		0.50	3.61						
MADE GROUND: Brown sandy gravelly CLAY with red brick fragments, plastic and cobble-sized concrete fragments. Sand is fine to medium. Gravel is subrounded fine to medium.					AA198516	B	0.70-0.80		
MADE GROUND: Dark brown/black sandy slightly gravelly CLAY with red brick fragments. Sand is fine to medium. Gravel is subrounded fine to medium. 1.0m Pipe (measures 1.20m from wall)		0.90	3.21						
1.0									
(Dense) Light brown clayey sandy GRAVEL with a low cobble content. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subrounded.		1.60	2.51		AA198517	B	1.70-1.80		
2.0					AA198518	B	2.50-2.60		
End of Trial Pit at 2.80m		2.80	1.31	1 (Seepage)					
3.0									

Groundwater Conditions
Water strike at 2.80m

Stability
Good

General Remarks
Foundation Inspection Pit FP06 conducted in pit - no foundation exposed.

IGSL TP LOG 25000 - SITE3.GPJ IGSL.GDT 28/2/24

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP07**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,653.69 E 735,734.44 N
		DATE STARTED	29/11/2023
		DATE COMPLETED	19/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	4.06
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL		0.10	3.96						
MADE GROUND: Dark brown to brown sandy very gravelly CLAY with a low cobble content and red brick fragments, plastic and cobble-sized concrete fragments. Sand is fine to medium. Gravel is subangular to subrounded fine to medium. Cobbles are subangular to subrounded.		0.60	3.46						
MADE GROUND: Light brown sandy very gravelly CLAY with a low cobble content and red brick fragments, plastic and cobble-sized concrete fragments. Sand is fine to medium. Gravel is subangular to subrounded fine to medium. Cobbles are subangular to subrounded.					AA198520	B	0.70-0.80		
1.0									
Firm to stiff light brown sandy gravelly CLAY with a low cobble content. Sand is fine to medium. Gravel is subangular fine to medium. Cobbles are subangular to subrounded.		1.60	2.46		AA198521	B	1.70-1.80		
2.0									
Stiff light brown/grey very sandy gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to medium.		2.40	1.66	(Moderate)	AA198522	B	2.50-2.60		
End of Trial Pit at 2.80m		2.80	1.26						
3.0									

Groundwater Conditions
Water strike at 2.50m

Stability
Good

General Remarks
Dig ended due to water ingress

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP08**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,669.56 E 735,731.84 N
		DATE STARTED	30/11/2023
		DATE COMPLETED	30/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	3.56
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL									
MADE GROUND: Dark brown/black sandy gravelly CLAY with a low cobble content and red brick fragments, plastic, concrete, sea shells. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subrounded.		0.20	3.36		AA198524	B	0.60-0.70		
1.0 Firm to stiff brown sandy gravelly CLAY with a low cobble content. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subrounded.		1.30	2.26		AA198525	B	1.50-1.60		
Firm to stiff brown mottled grey sandy gravelly CLAY with a low cobble content. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subrounded.		1.70	1.86	1 (Moderate)	AA198526	B	2.20-2.30		
2.0 Stiff grey sandy gravelly CLAY/SILT with a medium cobble content. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subrounded.		2.50	1.06		AA198527	B	2.70-2.80		
3.0 End of Trial Pit at 3.00m		3.00	0.56						

Groundwater Conditions
Water strike at 2.10m

Stability
Good

General Remarks
Dig ended due to water ingress

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP09**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,692.90 E 735,755.88 N
		DATE STARTED	30/11/2023
		DATE COMPLETED	30/11/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	3.50
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL		0.10	3.40						
MADE GROUND: Dark brown sandy gravelly CLAY with a low cobble content and red brick fragments, plastic, concrete, sea shells. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subrounded.					AA198530	B	0.70-0.80		
1.0 Firm to stiff brown sandy gravelly CLAY with a medium cobble content. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subangular to subrounded.		1.10	2.40						
				1 (Moderate)	AA198531	B	1.50-1.60		
2.0 Firm to stiff brown sandy very gravelly CLAY with a medium cobble content. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subangular to subrounded.		2.10	1.40		AA198532	B	2.10-2.20		
End of Trial Pit at 2.30m		2.30	1.20						
3.0									

Groundwater Conditions
Water strike at 2.0m

Stability
Good

General Remarks
Dig ended due to water ingress

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP10**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,658.73 E 735,798.26 N
		DATE STARTED	04/12/2023
		DATE COMPLETED	04/12/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	3.88
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 TOPSOIL									
MADE GROUND: Dark brown sandy gravelly CLAY with red brick fragments, plastic, concrete. Sand is fine to medium. Gravel is subrounded fine to medium.		0.20	3.68		AA198537	B	0.70-0.80		
1.0 Firm brown sandy gravelly CLAY with a medium cobble content. Sand is fine to medium. Gravel is subrounded fine to medium. Cobbles are subrounded.		1.10	2.78		AA198538	B	1.30-1.40		
2.0 (Medium dense to dense) Brown slightly clayey sandy GRAVEL with a medium cobble content. Sand is fine to medium. Gravel is subrounded fine to coarse. Cobbles are subrounded.		2.10	1.78	1 (Moderate)	AA198539	B	2.30-2.40		
End of Trial Pit at 2.40m		2.40	1.48						
3.0									

Groundwater Conditions
Water strike at 2.30m

Stability
Good

General Remarks
Dig ended due to water ingress

TRIAL PIT RECORD

REPORT NUMBER 25000-3

CONTRACT	NDFA Social Housing Bundles 4/5 - Lot 3 - Croke Villas	**TRIAL PIT NO.**	**TP11**
		SHEET	Sheet 1 of 1
LOGGED BY	DM	**CO-ORDINATES**	716,663.82 E 735,782.51 N
		DATE STARTED	04/12/2023
		DATE COMPLETED	04/12/2023
CLIENT	NDFA	**GROUND LEVEL (m)**	4.23
ENGINEER	MORCE	**EXCAVATION METHOD**	Tracked Excavator

Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples: Sample Ref	Samples: Type	Samples: Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0 MADE GROUND: Brown to grey sandy gravelly CLAY with red brick fragments, plastic and cobble-sized concrete fragments. Sand is fine to medium. Gravel is subrounded fine to medium.					AA198540	B	0.80-0.90		
1.0									
1.60m Pipe (possible sewage) (measures 0.80m from wall) End of Trial Pit at 1.60m		1.60	2.63						
2.0									
3.0									

Groundwater Conditions
Dry

Stability
Good

General Remarks
Dig ended upon intercepting buried clay pipe

Appendix 2

Laboratory Report

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	24-03653-1
Initial Date of Issue:	22-Feb-2024
Re-Issue Details:	
Client	IGSL
Client Address:	M7 Business Park Naas County Kildare Ireland
Contact(s):	Darren Keogh
Project	25000 Croke Villas
Quotation No.:	Q20-21693
Date Received:	07-Feb-2024
Order No.:	
Date Instructed:	07-Feb-2024
No. of Samples:	19
Turnaround (Wkdays):	7
Results Due:	15-Feb-2024
Date Approved:	22-Feb-2024
Approved By:	
Details:	Stuart Henderson, Technical Manager

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763594	1763595	1763596	1763597	1763599	1763601	1763602	1763604	1763605
Order No.:				Client Sample Ref.:		TP2	TP2	TP3	TP4	TP5	TP5	TP6	TP7	TP8
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.70	1.40	0.80	0.80	0.80	2.50	0.70	0.70	0.60
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**									
Ammonium	U	1220	10:1	mg/l	0.050	0.056	0.058	0.058	0.078	< 0.050	0.070	0.061	0.078	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.63	0.63	0.64	0.85	0.65	0.87	0.68	0.93	0.50

Results - Leachate

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763611	1763612	1763614	1763616
Order No.:				Client Sample Ref.:		TP9	TP9	TP10	TP11
				Sample Type:		SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.70	1.50	0.70	0.80
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**				
Ammonium	U	1220	10:1	mg/l	0.050	0.092	0.074	0.077	0.066
Ammonium	N	1220	10:1	mg/kg	0.10	1.0	1.0	1.0	0.75

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763594	1763595	1763596	1763597	1763598	1763599	1763600
Order No.:				Client Sample Ref.:		TP2	TP2	TP3	TP4	TP4	TP5	TP5
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.70	1.40	0.80	0.80	1.50	0.80	1.60
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		U	2192		N/A	-	-	-	-		Fibres/Clumps	
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		Chrysotile	
Asbestos by Gravimetry		U	2192	%	0.001						<0.001	
Total Asbestos		U	2192	%	0.001						<0.001	
Moisture		N	2030	%	0.020	18	26	23	15	16	12	13
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Clay	Sand	Sand
pH at 20C		M	2010		4.0	7.9	8.0	8.1	8.1		8.5	
pH (2.5:1) at 20C		N	2010		4.0					8.4		8.5
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.3	1.6	1.3	0.85		1.5	
Magnesium (Water Soluble)		N	2120	g/l	0.010					< 0.010		< 0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010					0.032		0.32
Total Sulphur		U	2175	%	0.010					0.032		0.20
Sulphur (Elemental)		M	2180	mg/kg	1.0	10	22	3.9	7.4		2.1	
Chloride (Water Soluble)		M	2220	g/l	0.010					< 0.010		< 0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010					< 0.010		0.011
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	0.70	< 0.50		< 0.50	
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	5.5	8.2	3.7	5.0		5.5	
Ammonium (Water Soluble)		M	2220	g/l	0.01					< 0.01		< 0.01
Sulphate (Total)		U	2430	%	0.010	0.13	0.98	0.42	0.32		0.091	
Sulphate (Acid Soluble)		U	2430	%	0.010					0.077		0.44
Arsenic		M	2455	mg/kg	0.5	19	19	29	37		22	
Barium		M	2455	mg/kg	0	170	170	220	200		270	
Cadmium		M	2455	mg/kg	0.10	2.6	2.3	1.1	1.2		2.0	
Chromium		M	2455	mg/kg	0.5	20	19	20	22		25	
Molybdenum		M	2455	mg/kg	0.5	4.0	3.6	4.8	6.3		4.0	
Antimony		N	2455	mg/kg	2.0	14	12	15	10		4.9	
Copper		M	2455	mg/kg	0.50	52	52	140	360		83	
Mercury		M	2455	mg/kg	0.05	0.72	0.70	2.3	1.4		0.93	
Nickel		M	2455	mg/kg	0.50	31	26	45	65		46	
Lead		M	2455	mg/kg	0.50	490	480	860	610		230	
Selenium		M	2455	mg/kg	0.25	1.7	0.53	1.6	1.5		1.3	
Zinc		M	2455	mg/kg	0.50	3000	3000	310	340		280	
Chromium (Trivalent)		N	2490	mg/kg	1.0	20	19	20	22		25	
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763594	1763595	1763596	1763597	1763598	1763599	1763600
Order No.:				Client Sample Ref.:		TP2	TP2	TP3	TP4	TP4	TP5	TP5
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.70	1.40	0.80	0.80	1.50	0.80	1.60
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25		< 0.25	
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	5.8	< 2.0	< 2.0		4.1	
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	3.0	< 1.0	< 1.0		< 1.0	
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	3.7	< 2.0	< 2.0		< 2.0	
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	5.9	< 3.0	< 3.0		3.3	
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10	< 10		< 10	
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	18	< 5.0	< 5.0		9.2	
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25	< 0.25		< 0.25	
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	4.2	< 1.0	< 1.0		< 1.0	
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	5.5	23	16	3.2		17	
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	2.9	19	13	< 2.0		16	
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	31	< 1.0	< 1.0		2.1	
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	8.3	46	29	< 5.0		34	
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	64	29	< 10		43	
Total Organic Carbon		M	2625	%	0.20	5.4	5.7	12	11		2.6	
Mineral Oil EPH	EH_CU_1D_Total	N	2670	mg/kg	10	< 10	18	< 10	< 10		< 10	
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Naphthalene		M	2800	mg/kg	0.10	0.72	0.49	< 0.10	0.24		< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10	0.43	0.34	< 0.10	< 0.10		< 0.10	
Acenaphthene		M	2800	mg/kg	0.10	0.17	0.12	< 0.10	0.26		< 0.10	
Fluorene		M	2800	mg/kg	0.10	0.32	0.26	< 0.10	0.26		< 0.10	
Phenanthrene		M	2800	mg/kg	0.10	3.8	2.7	0.88	3.0		0.63	
Anthracene		M	2800	mg/kg	0.10	0.83	0.59	0.18	0.52		0.14	
Fluoranthene		M	2800	mg/kg	0.10	4.4	2.7	1.1	3.6		0.84	
Pyrene		M	2800	mg/kg	0.10	3.5	2.3	0.97	3.0		0.70	
Benzo[a]anthracene		M	2800	mg/kg	0.10	1.9	1.2	0.53	1.7		0.42	

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763594	1763595	1763596	1763597	1763598	1763599	1763600
Order No.:				Client Sample Ref.:		TP2	TP2	TP3	TP4	TP4	TP5	TP5
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		0.70	1.40	0.80	0.80	1.50	0.80	1.60
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Chrysene		M	2800	mg/kg	0.10	1.9	1.3	0.57	1.8		0.34	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.3	1.4	0.65	1.9		0.45	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.81	0.60	0.21	0.59		0.16	
Benzo[a]pyrene		M	2800	mg/kg	0.10	1.7	1.0	0.50	1.6		0.34	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.0	0.64	0.32	0.96		0.23	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	0.21	0.16	< 0.10	0.26		< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.99	0.72	0.31	0.99		0.22	
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Total Of 17 PAH's Lower		N	2800	mg/kg	1.0	25	17	6.2	21		4.5	
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763601	1763602	1763603	1763604	1763605	1763610	1763611
Order No.:				Client Sample Ref.:		TP5	TP6	TP6	TP7	TP8	TP8	TP9
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		2.50	0.70	1.70	0.70	0.60	1.50	0.70
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM	DURHAM		DURHAM	DURHAM		DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		U	2192		N/A	-	-		-	-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001							
Total Asbestos		U	2192	%	0.001							
Moisture		N	2030	%	0.020	13	14	12	16	13	19	15
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Clay	Sand
pH at 20C		M	2010		4.0	8.3	8.1		8.3	8.0		8.1
pH (2.5:1) at 20C		N	2010		4.0			8.6			8.0	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.0	1.3		1.1	2.4		1.1
Magnesium (Water Soluble)		N	2120	g/l	0.010			< 0.010			< 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			0.021			0.052	
Total Sulphur		U	2175	%	0.010			0.13			0.023	
Sulphur (Elemental)		M	2180	mg/kg	1.0	1.9	6.2		4.7	2.8		2.2
Chloride (Water Soluble)		M	2220	g/l	0.010			< 0.010			0.016	
Nitrate (Water Soluble)		N	2220	g/l	0.010			< 0.010			< 0.010	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50		0.60
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	5.2	4.3		6.3	4.7		4.7
Ammonium (Water Soluble)		M	2220	g/l	0.01			< 0.01			< 0.01	
Sulphate (Total)		U	2430	%	0.010	0.31	0.21		0.17	0.12		0.24
Sulphate (Acid Soluble)		U	2430	%	0.010			0.085			0.046	
Arsenic		M	2455	mg/kg	0.5	23	33		25	18		43
Barium		M	2455	mg/kg	0	220	130		90	85		280
Cadmium		M	2455	mg/kg	0.10	2.1	1.1		1.0	1.2		2.0
Chromium		M	2455	mg/kg	0.5	18	18		15	20		26
Molybdenum		M	2455	mg/kg	0.5	3.3	7.1		3.4	3.1		7.5
Antimony		N	2455	mg/kg	2.0	19	4.2		4.9	3.7		6.3
Copper		M	2455	mg/kg	0.50	61	88		63	56		120
Mercury		M	2455	mg/kg	0.05	0.75	1.7		1.0	0.54		3.0
Nickel		M	2455	mg/kg	0.50	41	59		44	36		64
Lead		M	2455	mg/kg	0.50	210	250		320	100		420
Selenium		M	2455	mg/kg	0.25	1.0	1.2		0.96	0.92		1.4
Zinc		M	2455	mg/kg	0.50	220	190		160	220		1100
Chromium (Trivalent)		N	2490	mg/kg	1.0	18	18		15	20		26
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763601	1763602	1763603	1763604	1763605	1763610	1763611
Order No.:				Client Sample Ref.:		TP5	TP6	TP6	TP7	TP8	TP8	TP9
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		2.50	0.70	1.70	0.70	0.60	1.50	0.70
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM	DURHAM		DURHAM	DURHAM		DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25		< 0.25	< 0.25		< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0		< 2.0	< 2.0		< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0		2.0	< 1.0		< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0		2.4	< 2.0		< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0		< 3.0	< 3.0		< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10		< 10	< 10		< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0		7.1	< 5.0		< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25		< 0.25	< 0.25		< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.2	2.0		3.5	3.2		9.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	5.0	< 2.0		4.3	4.4		13
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0		15	< 1.0		< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	11	< 5.0		7.8	7.5		23
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	11	< 10		15	11		26
Total Organic Carbon		M	2625	%	0.20	3.8	8.0		4.9	2.6		8.1
Mineral Oil EPH	EH_CU_1D_Total	N	2670	mg/kg	10	< 10	< 10		< 10	< 10		< 10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0
Naphthalene		M	2800	mg/kg	0.10	1.5	< 0.10		< 0.10	< 0.10		0.41
Acenaphthylene		N	2800	mg/kg	0.10	0.21	< 0.10		< 0.10	< 0.10		0.19
Acenaphthene		M	2800	mg/kg	0.10	0.45	< 0.10		< 0.10	< 0.10		0.22
Fluorene		M	2800	mg/kg	0.10	0.71	< 0.10		< 0.10	< 0.10		0.21
Phenanthrene		M	2800	mg/kg	0.10	6.1	0.88		0.54	< 0.10		3.5
Anthracene		M	2800	mg/kg	0.10	1.5	< 0.10		< 0.10	< 0.10		0.73
Fluoranthene		M	2800	mg/kg	0.10	5.9	0.74		0.29	< 0.10		8.2
Pyrene		M	2800	mg/kg	0.10	4.5	0.63		0.27	< 0.10		7.5
Benzo[a]anthracene		M	2800	mg/kg	0.10	2.6	0.31		0.21	< 0.10		4.6

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763601	1763602	1763603	1763604	1763605	1763610	1763611
Order No.:				Client Sample Ref.:		TP5	TP6	TP6	TP7	TP8	TP8	TP9
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		2.50	0.70	1.70	0.70	0.60	1.50	0.70
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM	DURHAM		DURHAM	DURHAM		DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Chrysene		M	2800	mg/kg	0.10	2.0	0.41		0.23	< 0.10		4.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	2.9	0.50		0.28	< 0.10		7.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	1.0	0.12		< 0.10	< 0.10		2.4
Benzo[a]pyrene		M	2800	mg/kg	0.10	2.2	0.30		< 0.10	< 0.10		6.3
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	1.3	0.21		< 0.10	< 0.10		4.0
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10		0.82
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	1.3	0.23		< 0.10	< 0.10		3.9
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10		< 0.10
Total Of 17 PAH's Lower		N	2800	mg/kg	1.0	34	4.3		1.8	< 1.0		55
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010		< 0.010	< 0.010		< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05		< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10		< 0.10

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763612	1763613	1763614	1763615	1763616
Order No.:				Client Sample Ref.:		TP9	TP9	TP10	TP10	TP11
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.50	2.10	0.70	1.30	0.80
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM		DURHAM		DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**					
ACM Type		U	2192		N/A	-		-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected
Asbestos by Gravimetry		U	2192	%	0.001					
Total Asbestos		U	2192	%	0.001					
Moisture		N	2030	%	0.020	9.6	16	7.5	7.1	11
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones and Roots	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand
pH at 20C		M	2010		4.0	8.5		8.8		7.9
pH (2.5:1) at 20C		N	2010		4.0		7.7		8.5	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.69		0.46		1.5
Magnesium (Water Soluble)		N	2120	g/l	0.010		< 0.010		< 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		0.88		0.094	
Total Sulphur		U	2175	%	0.010		0.22		0.025	
Sulphur (Elemental)		M	2180	mg/kg	1.0	1.6		3.6		2.7
Chloride (Water Soluble)		M	2220	g/l	0.010		< 0.010		< 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010		0.017		< 0.010	
Cyanide (Total)		M	2300	mg/kg	0.50	0.90		< 0.50		< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	9.7		7.5		6.1
Ammonium (Water Soluble)		M	2220	g/l	0.01		< 0.01		< 0.01	
Sulphate (Total)		U	2430	%	0.010	0.15		0.21		0.37
Sulphate (Acid Soluble)		U	2430	%	0.010		0.55		0.057	
Arsenic		M	2455	mg/kg	0.5	17		12		12
Barium		M	2455	mg/kg	0	83		88		85
Cadmium		M	2455	mg/kg	0.10	1.5		1.6		1.5
Chromium		M	2455	mg/kg	0.5	20		20		19
Molybdenum		M	2455	mg/kg	0.5	4.0		4.6		4.3
Antimony		N	2455	mg/kg	2.0	2.3		< 2.0		2.0
Copper		M	2455	mg/kg	0.50	40		30		30
Mercury		M	2455	mg/kg	0.05	0.34		0.18		0.19
Nickel		M	2455	mg/kg	0.50	44		40		38
Lead		M	2455	mg/kg	0.50	75		49		48
Selenium		M	2455	mg/kg	0.25	1.2		1.4		1.3
Zinc		M	2455	mg/kg	0.50	150		110		110
Chromium (Trivalent)		N	2490	mg/kg	1.0	20		20		19
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50		< 0.50		< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763612	1763613	1763614	1763615	1763616
Order No.:				Client Sample Ref.:		TP9	TP9	TP10	TP10	TP11
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.50	2.10	0.70	1.30	0.80
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM		DURHAM		DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**					
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25		< 0.25		< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0		< 2.0		< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0		1.7		< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0		2.6		< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0		3.7		< 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10		< 10		< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0		9.8		< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05		< 0.05		< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25		< 0.25		< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0		< 1.0		< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0		< 1.0		< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	3.8		6.1		4.1
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0		7.4		3.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0		< 1.0		< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0		14		7.2
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50		< 0.50		< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10		23		< 10
Total Organic Carbon		M	2625	%	0.20	2.3		2.1		1.6
Mineral Oil EPH	EH_CU_1D_Total	N	2670	mg/kg	10	< 10		< 10		< 10
Benzene		M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0		< 1.0		< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10		0.24		< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10
Fluoranthene		M	2800	mg/kg	0.10	0.45		0.30		< 0.10
Pyrene		M	2800	mg/kg	0.10	0.39		0.28		< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	0.24		0.22		< 0.10

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03653	24-03653	24-03653	24-03653	24-03653
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763612	1763613	1763614	1763615	1763616
Order No.:				Client Sample Ref.:		TP9	TP9	TP10	TP10	TP11
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.50	2.10	0.70	1.30	0.80
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		DURHAM		DURHAM		DURHAM
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**					
Chrysene		M	2800	mg/kg	0.10	0.23		0.21		< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	0.36		< 0.10		< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	0.11		< 0.10		< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	0.28		< 0.10		< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	0.25		< 0.10		< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	0.25		< 0.10		< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10		< 0.10		< 0.10
Total Of 17 PAH's Lower		N	2800	mg/kg	1.0	2.6		1.3		< 1.0
PCB 28		U	2815	mg/kg	0.010	< 0.010		< 0.010		< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010		< 0.010		< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010		< 0.010		< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010		< 0.010		< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010		< 0.010		< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010		< 0.010		< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010		< 0.010		< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05		< 0.05		< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10		< 0.10		< 0.10

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763594							
Sample Ref:	TP2							
Sample ID:								
Sample Location:								
Top Depth(m):	0.70							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	5.4	3	5	6
Loss On Ignition	2610		M	%	9.9	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	64	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0069	0.069	0.5	2	25
Barium	1455		U	0.006	0.058	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0009	0.0089	0.5	10	70
Copper	1455		U	0.0030	0.030	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0046	0.046	0.5	10	30
Nickel	1455		U	0.0008	0.0076	0.4	10	40
Lead	1455		U	0.0024	0.024	0.5	10	50
Antimony	1455		U	0.013	0.13	0.06	0.7	5
Selenium	1455		U	0.0006	0.0059	0.1	0.5	7
Zinc	1455		U	0.020	0.21	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.15	1.5	10	150	500
Sulphate	1220		U	47	470	1000	20000	50000
Total Dissolved Solids	1020		N	110	1100	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	5.4	54	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763595							
Sample Ref:	TP2							
Sample ID:								
Sample Location:								
Top Depth(m):	1.40							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	5.7	3	5	6
Loss On Ignition	2610		M	%	11	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	170	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.035	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0092	0.092	0.5	2	25
Barium	1455		U	0.005	0.051	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0010	0.0099	0.5	10	70
Copper	1455		U	0.0027	0.027	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0039	0.040	0.5	10	30
Nickel	1455		U	0.0008	0.0081	0.4	10	40
Lead	1455		U	0.0011	0.011	0.5	10	50
Antimony	1455		U	0.0087	0.087	0.06	0.7	5
Selenium	1455		U	0.0006	0.0059	0.1	0.5	7
Zinc	1455		U	0.018	0.18	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	51	510	1000	20000	50000
Total Dissolved Solids	1020		N	130	1300	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	26

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763596							
Sample Ref:	TP3							
Sample ID:								
Sample Location:								
Top Depth(m):	0.80							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	12	3	5	6
Loss On Ignition	2610		M	%	12	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	130	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0040	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.012	0.12	0.5	2	25
Barium	1455		U	0.008	0.080	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0010	0.0096	0.5	10	70
Copper	1455		U	0.0042	0.042	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0025	0.026	0.5	10	30
Nickel	1455		U	0.0008	0.0080	0.4	10	40
Lead	1455		U	0.0043	0.043	0.5	10	50
Antimony	1455		U	0.026	0.26	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.021	0.22	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.40	4.0	10	150	500
Sulphate	1220		U	28	280	1000	20000	50000
Total Dissolved Solids	1020		N	95	940	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	23

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763597							
Sample Ref:	TP4							
Sample ID:								
Sample Location:								
Top Depth(m):	0.80							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	11	3	5	6
Loss On Ignition	2610		M	%	11	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	80	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0070	0.070	0.5	2	25
Barium	1455		U	0.006	0.060	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0009	0.0094	0.5	10	70
Copper	1455		U	0.0057	0.057	2	50	100
Mercury	1455		U	0.00007	0.00069	0.01	0.2	2
Molybdenum	1455		U	0.0063	0.063	0.5	10	30
Nickel	1455		U	0.0008	0.0077	0.4	10	40
Lead	1455		U	0.0032	0.032	0.5	10	50
Antimony	1455		U	0.0051	0.051	0.06	0.7	5
Selenium	1455		U	0.0008	0.0085	0.1	0.5	7
Zinc	1455		U	0.019	0.19	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.35	3.5	10	150	500
Sulphate	1220		U	29	290	1000	20000	50000
Total Dissolved Solids	1020		N	96	950	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	24-03653							
Chemtest Sample ID:	1763599							
Sample Ref:	TP5							
Sample ID:								
Sample Location:								
Top Depth(m):	0.80							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	2.6	3	5	6
Loss On Ignition	2610		M	%	5.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	170	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.014	0.14	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0024	0.024	0.5	10	70
Copper	1455		U	0.0026	0.026	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0051	0.052	0.5	10	30
Nickel	1455		U	0.0005	0.0053	0.4	10	40
Lead	1455		U	0.0005	0.0053	0.5	10	50
Antimony	1455		U	0.0036	0.036	0.06	0.7	5
Selenium	1455		U	0.0011	0.011	0.1	0.5	7
Zinc	1455		U	0.018	0.18	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	66	660	1000	20000	50000
Total Dissolved Solids	1020		N	140	1400	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763601							
Sample Ref:	TP5							
Sample ID:								
Sample Location:								
Top Depth(m):	2.50							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	3.8	3	5	6
Loss On Ignition	2610		M	%	3.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	360	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0040	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.012	0.12	0.5	2	25
Barium	1455		U	0.005	0.052	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0006	0.0062	0.5	10	70
Copper	1455		U	0.0031	0.031	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0023	0.023	0.5	10	30
Nickel	1455		U	0.0008	0.0078	0.4	10	40
Lead	1455		U	0.0020	0.020	0.5	10	50
Antimony	1455		U	0.0047	0.047	0.06	0.7	5
Selenium	1455		U	0.0006	0.0061	0.1	0.5	7
Zinc	1455		U	0.023	0.23	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	32	320	1000	20000	50000
Total Dissolved Solids	1020		N	90	900	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763602							
Sample Ref:	TP6							
Sample ID:								
Sample Location:								
Top Depth(m):	0.70							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	8.0	3	5	6
Loss On Ignition	2610		M	%	14	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	85	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.025	0.25	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0034	0.034	2	50	100
Mercury	1455		U	0.00006	0.00057	0.01	0.2	2
Molybdenum	1455		U	0.0046	0.046	0.5	10	30
Nickel	1455		U	0.0016	0.016	0.4	10	40
Lead	1455		U	0.0030	0.031	0.5	10	50
Antimony	1455		U	0.0036	0.036	0.06	0.7	5
Selenium	1455		U	0.0006	0.0062	0.1	0.5	7
Zinc	1455		U	0.018	0.18	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	6.7	67	1000	20000	50000
Total Dissolved Solids	1020		N	77	770	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.4	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	24-03653							
Chemtest Sample ID:	1763604							
Sample Ref:	TP7							
Sample ID:								
Sample Location:								
Top Depth(m):	0.70							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	4.9	3	5	6
Loss On Ignition	2610		M	%	9.7	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	76	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0030	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.021	0.21	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0039	0.039	2	50	100
Mercury	1455		U	0.00007	0.00066	0.01	0.2	2
Molybdenum	1455		U	0.0016	0.016	0.5	10	30
Nickel	1455		U	0.0017	0.017	0.4	10	40
Lead	1455		U	0.0041	0.041	0.5	10	50
Antimony	1455		U	0.0029	0.029	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.020	0.20	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.17	1.7	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	55	550	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	6.5	65	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	16

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763605							
Sample Ref:	TP8							
Sample ID:								
Sample Location:								
Top Depth(m):	0.60							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	2.6	3	5	6
Loss On Ignition	2610		M	%	6.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0060	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.014	0.14	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0008	0.0081	0.5	10	70
Copper	1455		U	0.0037	0.037	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0035	0.035	0.5	10	30
Nickel	1455		U	0.0017	0.017	0.4	10	40
Lead	1455		U	0.0011	0.011	0.5	10	50
Antimony	1455		U	0.0048	0.048	0.06	0.7	5
Selenium	1455		U	0.0007	0.0071	0.1	0.5	7
Zinc	1455		U	0.041	0.41	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	5.7	57	1000	20000	50000
Total Dissolved Solids	1020		N	63	630	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	24-03653							
Chemtest Sample ID:	1763611							
Sample Ref:	TP9							
Sample ID:								
Sample Location:								
Top Depth(m):	0.70							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	8.1	3	5	6
Loss On Ignition	2610		M	%	20	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	130	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0030	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.013	0.13	0.5	2	25
Barium	1455		U	0.009	0.092	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0053	0.053	0.5	10	70
Copper	1455		U	0.0044	0.044	2	50	100
Mercury	1455		U	0.00011	0.0011	0.01	0.2	2
Molybdenum	1455		U	0.0018	0.018	0.5	10	30
Nickel	1455		U	0.0019	0.019	0.4	10	40
Lead	1455		U	0.0050	0.050	0.5	10	50
Antimony	1455		U	0.0039	0.039	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.037	0.37	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.32	3.2	10	150	500
Sulphate	1220		U	4.3	43	1000	20000	50000
Total Dissolved Solids	1020		N	67	670	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	5.0	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763612							
Sample Ref:	TP9							
Sample ID:								
Sample Location:								
Top Depth(m):	1.50							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	2.3	3	5	6
Loss On Ignition	2610		M	%	3.6	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0060	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0079	0.079	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0013	0.013	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0071	0.071	0.5	10	30
Nickel	1455		U	0.0005	0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0015	0.015	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.018	0.19	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.15	1.5	10	150	500
Sulphate	1220		U	1.1	11	1000	20000	50000
Total Dissolved Solids	1020		N	53	530	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.6

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03653					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763614							
Sample Ref:	TP10							
Sample ID:								
Sample Location:								
Top Depth(m):	0.70							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**		**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Total Organic Carbon	2625		M	%	2.1	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.050	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0028	0.028	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0006	0.0063	0.5	10	70
Copper	1455		U	0.0010	0.0096	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.014	0.14	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0014	0.014	0.06	0.7	5
Selenium	1455		U	0.0011	0.011	0.1	0.5	7
Zinc	1455		U	0.017	0.17	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	1.5	15	1000	20000	50000
Total Dissolved Solids	1020		N	51	510	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	7.5

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No:	24-03653							
Chemtest Sample ID:	1763616							
Sample Ref:	TP11							
Sample ID:								
Sample Location:								
Top Depth(m):	0.80							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	1.6	3	5	6
Loss On Ignition	2610		M	%	5.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.016	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0048	0.048	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0013	0.013	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0054	0.054	0.5	10	30
Nickel	1455		U	0.0007	0.0069	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0010	0.010	0.06	0.7	5
Selenium	1455		U	0.0013	0.013	0.1	0.5	7
Zinc	1455		U	0.039	0.39	4	50	200
Chloride	1220		U	2.1	21	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	75	750	1000	20000	50000
Total Dissolved Solids	1020		N	150	1500	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	
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).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
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.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
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	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurememt by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline 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.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
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	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane 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.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water

Report Information

RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	24-03656-1
Initial Date of Issue:	15-Feb-2024
Re-Issue Details:	
Client	IGSL
Client Address:	M7 Business Park Naas County Kildare Ireland
Contact(s):	Darren Keogh
Project	25000 Croke Villas
Quotation No.:	Q20-21693
Date Received:	07-Feb-2024
Order No.:	
Date Instructed:	07-Feb-2024
No. of Samples:	22
Turnaround (Wkdays):	7
Results Due:	15-Feb-2024
Date Approved:	15-Feb-2024
Approved By:	
Details:	Stuart Henderson, Technical Manager

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763617	1763618	1763620	1763621	1763622	1763623	1763625	1763627	1763628
Order No.:				Client Sample Ref.:		BH1	BH2	BH3	BH4	BH4	BH5	BH6	BH7	BH9
				Client Sample ID.:		BH1	BH2	BH3	BH4	BH4	BH5	BH6	BH7	BH9
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.0	1.0	2.0	1.0	3.0	1.0	2.0	1.0	1.0
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**									
Ammonium	U	1220	10:1	mg/l	0.050	< 0.050	0.065	0.26	0.13	0.10	0.084	0.067	0.065	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.62	0.83	3.2	1.4	1.3	0.97	0.78	0.78	0.56

Results - Leachate

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763630	1763632	1763633	1763634	1763635	1763637	1763638
Order No.:				Client Sample Ref.:		BH10	BH11	BH11	BH12	BH13	TP1	TP1
				Client Sample ID.:		BH10	BH11	BH11	BH12	BH13	TP1	TP1
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.0	1.0	2.5	1.0	1.0	0.7	1.3
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
Determinand	**Accred.**	**SOP**	**Type**	**Units**	**LOD**							
Ammonium	U	1220	10:1	mg/l	0.050	0.066	0.055	0.061	0.059	< 0.050	< 0.050	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.78	0.67	0.79	0.64	0.53	0.49	0.50

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763617	1763618	1763619	1763620	1763621	1763622	1763623
Order No.:				Client Sample Ref.:		BH1	BH2	BH2	BH3	BH4	BH4	BH5
				Client Sample ID.:		BH1	BH2	BH2	BH3	BH4	BH4	BH5
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.0	1.0	3.0	2.0	1.0	3.0	1.0
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		U	2192		N/A	-	-		-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	14	17	9.3	20	15	9.9	18
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones and Roots	Stones	Stones and Roots
Soil Texture		N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Loam
pH at 20C		M	2010		4.0	8.6	8.4		8.4	8.2	8.7	10.2
pH (2.5:1) at 20C		N	2010		4.0			9.3				
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.54	0.46		1.5	0.84	< 0.40	0.50
Magnesium (Water Soluble)		N	2120	g/l	0.010			< 0.010				
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			0.032				
Total Sulphur		U	2175	%	0.010			0.038				
Sulphur (Elemental)		M	2180	mg/kg	1.0	2.0	2.6		4.3	3.9	< 1.0	7.9
Chloride (Water Soluble)		M	2220	g/l	0.010			< 0.010				
Nitrate (Water Soluble)		N	2220	g/l	0.010			< 0.010				
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50		< 0.50	1.0	< 0.50	4.9
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	4.5	4.1		3.7	3.3	4.5	3.9
Ammonium (Water Soluble)		M	2220	g/l	0.01			< 0.01				
Sulphate (Total)		U	2430	%	0.010	0.095	0.20		0.32	0.27	0.082	0.30
Sulphate (Acid Soluble)		U	2430	%	0.010			0.046				
Arsenic		M	2455	mg/kg	0.5	12	15		20	22	12	17
Barium		M	2455	mg/kg	0	84	230		320	320	78	210
Cadmium		M	2455	mg/kg	0.10	1.4	0.74		10	1.2	2.3	0.40
Chromium		M	2455	mg/kg	0.5	19	19		200	24	18	36
Molybdenum		M	2455	mg/kg	0.5	4.3	1.9		3.5	2.6	5.1	4.2
Antimony		N	2455	mg/kg	2.0	3.7	9.2		5.3	150	2.0	190
Copper		M	2455	mg/kg	0.50	25	45		67	92	32	110
Mercury		M	2455	mg/kg	0.05	0.18	0.62		0.53	0.69	0.06	6.9
Nickel		M	2455	mg/kg	0.50	31	25		43	29	53	44
Lead		M	2455	mg/kg	0.50	43	240		1600	1300	29	1100
Selenium		M	2455	mg/kg	0.25	1.2	0.63		1.9	0.86	1.1	0.67
Zinc		M	2455	mg/kg	0.50	90	180		3700	700	98	220
Chromium (Trivalent)		N	2490	mg/kg	1.0	19	19		200	24	18	36
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763617	1763618	1763619	1763620	1763621	1763622	1763623
Order No.:				Client Sample Ref.:		BH1	BH2	BH2	BH3	BH4	BH4	BH5
				Client Sample ID.:		BH1	BH2	BH2	BH3	BH4	BH4	BH5
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.0	1.0	3.0	2.0	1.0	3.0	1.0
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25		< 0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_AL_2D_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	2.8
Aliphatic EPH >C12-C16 MC	EH_AL_2D_#1	M	2690	mg/kg	1.00	< 1.0	4.8		5.1	1.1	1.9	4.6
Aliphatic EPH >C16-C21 MC	EH_AL_2D_#1	M	2690	mg/kg	2.00	< 2.0	6.5		4.9	6.5	< 2.0	4.0
Aliphatic EPH >C21-C35 MC	EH_AL_2D_#1	M	2690	mg/kg	3.00	< 3.0	4.1		5.3	10	< 3.0	< 3.0
Aliphatic EPH >C35-C40 MC	EH_AL_2D_#1	N	2690	mg/kg	10.00	< 10	< 10		< 10	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_AL_2D_#1	M	2690	mg/kg	5.00	< 5.0	17		17	19	< 5.0	13
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25		< 0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_AR_2D_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_AR_2D_#1	U	2690	mg/kg	1.00	< 1.0	1.5		< 1.0	3.3	< 1.0	1.1
Aromatic EPH >C16-C21 MC	EH_AR_2D_#1	U	2690	mg/kg	2.00	4.2	21		9.0	97	4.9	110
Aromatic EPH >C21-C35 MC	EH_AR_2D_#1	U	2690	mg/kg	2.00	< 2.0	84		17	320	3.5	220
Aromatic EPH >C35-C40 MC	EH_AR_2D_#1	N	2690	mg/kg	1.00	< 1.0	3.8		1.6	31	< 1.0	7.8
Total Aromatic EPH >C10-C35 MC	EH_AR_2D_#1	U	2690	mg/kg	5.00	6.1	110		26	420	8.4	340
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_Total_2D_#1	U	2690	mg/kg	10.00	< 10	120		43	430	12	350
Total Organic Carbon		M	2625	%	0.20	1.9	5.2		8.1	8.5	0.41	12
Mineral Oil EPH	EH_AL_2D_#1	N	2670	mg/kg	10	< 10	17		17	19	< 10	13
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	0.19		< 0.10	< 0.10	< 0.10	0.33
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	0.14		< 0.10	< 0.10	< 0.10	0.16
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	0.13		< 0.10	< 0.10	< 0.10	0.11
Fluorene		M	2800	mg/kg	0.10	< 0.10	0.15		< 0.10	< 0.10	< 0.10	0.11
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	1.6		0.93	2.6	< 0.10	2.0
Anthracene		M	2800	mg/kg	0.10	< 0.10	0.37		0.24	0.87	< 0.10	0.86
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	2.9		1.3	10	< 0.10	10
Pyrene		M	2800	mg/kg	0.10	< 0.10	2.7		1.2	10	< 0.10	11
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	1.7		0.61	6.5	< 0.10	5.5

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763617	1763618	1763619	1763620	1763621	1763622	1763623
Order No.:				Client Sample Ref.:		BH1	BH2	BH2	BH3	BH4	BH4	BH5
				Client Sample ID.:		BH1	BH2	BH2	BH3	BH4	BH4	BH5
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		1.0	1.0	3.0	2.0	1.0	3.0	1.0
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:		COVENTRY	COVENTRY		COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Chrysene		M	2800	mg/kg	0.10	< 0.10	2.0		0.72	6.8	< 0.10	6.0
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	2.7		0.86	11	< 0.10	8.2
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	1.0		0.26	3.9	< 0.10	3.2
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	2.5		0.66	8.6	< 0.10	6.6
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	1.8		0.45	5.7	< 0.10	4.4
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	0.40		< 0.10	1.1	< 0.10	0.85
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	1.7		0.45	5.4	< 0.10	4.5
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Total Of 17 PAH's Lower		N	2800	mg/kg	1.0	< 1.0	22		7.7	73	< 1.0	64
PCB 28		U	2815	mg/kg	0.010	< 0.010	0.060		< 0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	0.048		< 0.010	< 0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	0.048		< 0.010	< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	0.048		< 0.010	< 0.010	< 0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010	0.036		< 0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	0.036		< 0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	0.048		< 0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	0.32		< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763624	1763625	1763626	1763627	1763628	1763629	1763630
Order No.:				Client Sample Ref.:		BH5	BH6	BH6	BH7	BH9	BH9	BH10
				Client Sample ID.:		BH5	BH6	BH6	BH7	BH9	BH9	BH10
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		2.0	2.0	4.0	1.0	1.0	2.0	1.0
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:			COVENTRY		COVENTRY	COVENTRY		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		U	2192		N/A		-		-	-		-
Asbestos Identification		U	2192		N/A		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	20	19	11	14	14	23	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	None	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Loam	Clay	Loam	Clay
pH at 20C		M	2010		4.0		8.4		8.4	8.5		9.5
pH (2.5:1) at 20C		N	2010		4.0	9.3		8.9			8.9	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		0.55		< 0.40	0.83		0.50
Magnesium (Water Soluble)		N	2120	g/l	0.010	< 0.010		< 0.010			< 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010		0.012			< 0.010	
Total Sulphur		U	2175	%	0.010	0.063		0.020			0.097	
Sulphur (Elemental)		M	2180	mg/kg	1.0		4.6		2.7	5.0		2.0
Chloride (Water Soluble)		M	2220	g/l	0.010	< 0.010		< 0.010			< 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010		< 0.010			< 0.010	
Cyanide (Total)		M	2300	mg/kg	0.50		< 0.50		< 0.50	< 0.50		< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50		4.7		4.1	13		4.7
Ammonium (Water Soluble)		M	2220	g/l	0.01	< 0.01		< 0.01			< 0.01	
Sulphate (Total)		U	2430	%	0.010		0.20		0.26	0.23		0.16
Sulphate (Acid Soluble)		U	2430	%	0.010	0.063		0.024			0.12	
Arsenic		M	2455	mg/kg	0.5		46		26	16		21
Barium		M	2455	mg/kg	0		140		180	240		73
Cadmium		M	2455	mg/kg	0.10		1.1		2.0	0.84		0.94
Chromium		M	2455	mg/kg	0.5		15		26	19		16
Molybdenum		M	2455	mg/kg	0.5		5.9		6.0	2.6		2.4
Antimony		N	2455	mg/kg	2.0		33		4.1	9.3		< 2.0
Copper		M	2455	mg/kg	0.50		100		65	55		32
Mercury		M	2455	mg/kg	0.05		2.4		0.86	0.83		0.26
Nickel		M	2455	mg/kg	0.50		49		55	28		25
Lead		M	2455	mg/kg	0.50		320		200	280		51
Selenium		M	2455	mg/kg	0.25		1.3		1.4	0.76		0.74
Zinc		M	2455	mg/kg	0.50		160		230	220		76
Chromium (Trivalent)		N	2490	mg/kg	1.0		15		26	19		16
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50		< 0.50	< 0.50		< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05		< 0.05	< 0.05		< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05		< 0.05	< 0.05		< 0.05

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763624	1763625	1763626	1763627	1763628	1763629	1763630
Order No.:				Client Sample Ref.:		BH5	BH6	BH6	BH7	BH9	BH9	BH10
				Client Sample ID.:		BH5	BH6	BH6	BH7	BH9	BH9	BH10
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		2.0	2.0	4.0	1.0	1.0	2.0	1.0
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:			COVENTRY		COVENTRY	COVENTRY		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05		< 0.05	< 0.05		< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05		< 0.05	< 0.05		< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		< 0.25		< 0.25	< 0.25		< 0.25
Aliphatic EPH >C10-C12 MC	EH_AL_2D_#1	M	2690	mg/kg	2.00		2.4		< 2.0	< 2.0		< 2.0
Aliphatic EPH >C12-C16 MC	EH_AL_2D_#1	M	2690	mg/kg	1.00		2.8		4.1	< 1.0		< 1.0
Aliphatic EPH >C16-C21 MC	EH_AL_2D_#1	M	2690	mg/kg	2.00		2.9		7.1	< 2.0		< 2.0
Aliphatic EPH >C21-C35 MC	EH_AL_2D_#1	M	2690	mg/kg	3.00		4.0		4.3	< 3.0		< 3.0
Aliphatic EPH >C35-C40 MC	EH_AL_2D_#1	N	2690	mg/kg	10.00		< 10		< 10	< 10		< 10
Total Aliphatic EPH >C10-C35 MC	EH_AL_2D_#1	M	2690	mg/kg	5.00		12		16	< 5.0		< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05		< 0.05	< 0.05		< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05		< 0.05	< 0.05		< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05		< 0.05	< 0.05		< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		< 0.25		< 0.25	< 0.25		< 0.25
Aromatic EPH >C10-C12 MC	EH_AR_2D_#1	U	2690	mg/kg	1.00		< 1.0		< 1.0	< 1.0		< 1.0
Aromatic EPH >C12-C16 MC	EH_AR_2D_#1	U	2690	mg/kg	1.00		< 1.0		< 1.0	< 1.0		< 1.0
Aromatic EPH >C16-C21 MC	EH_AR_2D_#1	U	2690	mg/kg	2.00		9.5		17	9.9		4.4
Aromatic EPH >C21-C35 MC	EH_AR_2D_#1	U	2690	mg/kg	2.00		19		57	9.1		4.5
Aromatic EPH >C35-C40 MC	EH_AR_2D_#1	N	2690	mg/kg	1.00		1.6		2.3	< 1.0		< 1.0
Total Aromatic EPH >C10-C35 MC	EH_AR_2D_#1	U	2690	mg/kg	5.00		29		74	19		8.9
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		< 0.50		< 0.50	< 0.50		< 0.50
Total EPH >C10-C35 MC	EH_Total_2D_#1	U	2690	mg/kg	10.00		41		90	22		13
Total Organic Carbon		M	2625	%	0.20		14		5.3	4.4		1.6
Mineral Oil EPH	EH_AL_2D_#1	N	2670	mg/kg	10		12		16	< 10		< 10
Benzene		M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0		< 1.0
Toluene		M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0		< 1.0
Ethylbenzene		M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0		< 1.0
m & p-Xylene		M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0		< 1.0
o-Xylene		M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0		< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		< 1.0		< 1.0	< 1.0		< 1.0
Naphthalene		M	2800	mg/kg	0.10		< 0.10		0.15	< 0.10		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10		< 0.10
Phenanthrene		M	2800	mg/kg	0.10		0.52		1.7	1.5		< 0.10
Anthracene		M	2800	mg/kg	0.10		< 0.10		0.39	0.16		< 0.10
Fluoranthene		M	2800	mg/kg	0.10		0.49		3.2	1.9		< 0.10
Pyrene		M	2800	mg/kg	0.10		0.42		2.8	1.5		< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10		< 0.10		2.0	0.76		< 0.10

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763624	1763625	1763626	1763627	1763628	1763629	1763630
Order No.:				Client Sample Ref.:		BH5	BH6	BH6	BH7	BH9	BH9	BH10
				Client Sample ID.:		BH5	BH6	BH6	BH7	BH9	BH9	BH10
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		2.0	2.0	4.0	1.0	1.0	2.0	1.0
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:			COVENTRY		COVENTRY	COVENTRY		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Chrysene		M	2800	mg/kg	0.10		< 0.10		2.2	0.81		< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10		< 0.10		3.4	1.2		< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10		< 0.10		1.2	0.32		< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10		< 0.10		2.5	0.73		< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10		< 0.10		1.8	0.56		< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10		< 0.10		0.33	< 0.10		< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10		< 0.10		1.9	0.52		< 0.10
Coronene		N	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10		< 0.10
Total Of 17 PAH's Lower		N	2800	mg/kg	1.0		1.4		24	10		< 1.0
PCB 28		U	2815	mg/kg	0.010		< 0.010		< 0.010	< 0.010		< 0.010
PCB 52		U	2815	mg/kg	0.010		< 0.010		< 0.010	< 0.010		< 0.010
PCB 101		U	2815	mg/kg	0.010		< 0.010		< 0.010	< 0.010		< 0.010
PCB 118		U	2815	mg/kg	0.010		< 0.010		< 0.010	< 0.010		< 0.010
PCB 153		U	2815	mg/kg	0.010		< 0.010		< 0.010	< 0.010		< 0.010
PCB 138		U	2815	mg/kg	0.010		< 0.010		< 0.010	< 0.010		< 0.010
PCB 180		U	2815	mg/kg	0.010		< 0.010		< 0.010	< 0.010		< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05		< 0.05		< 0.05	< 0.05		< 0.05
Total Phenols		M	2920	mg/kg	0.10		< 0.10		< 0.10	< 0.10		< 0.10

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763631	1763632	1763633	1763634	1763635	1763636	1763637
Order No.:				Client Sample Ref.:		BH10	BH11	BH11	BH12	BH13	BH13	TP1
				Client Sample ID.:		BH10	BH11	BH11	BH12	BH13	BH13	TP1
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		3.0	1.0	2.5	1.0	1.0	2.0	0.7
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type		U	2192		N/A		-	-	-	-		-
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	17	14	16	12	11	6.6	19
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Roots and Stones	Stones	Stones	Stones	Stones	Roots and Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Loam	Clay	Loam
pH at 20C		M	2010		4.0		8.4	9.0	8.5	8.0		8.5
pH (2.5:1) at 20C		N	2010		4.0	9.0					9.1	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		0.63	0.44	1.3	0.69		1.9
Magnesium (Water Soluble)		N	2120	g/l	0.010	< 0.010					< 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010					< 0.010	
Total Sulphur		U	2175	%	0.010	0.020					0.043	
Sulphur (Elemental)		M	2180	mg/kg	1.0		2.8	1.8	1.9	4.3		6.3
Chloride (Water Soluble)		M	2220	g/l	0.010	< 0.010					< 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010					< 0.010	
Cyanide (Total)		M	2300	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50		4.2	3.3	5.2	5.1		4.9
Ammonium (Water Soluble)		M	2220	g/l	0.01	< 0.01					< 0.01	
Sulphate (Total)		U	2430	%	0.010		0.25	0.29	0.15	0.37		0.25
Sulphate (Acid Soluble)		U	2430	%	0.010	0.060					0.047	
Arsenic		M	2455	mg/kg	0.5		44	18	12	20		24
Barium		M	2455	mg/kg	0		130	140	73	90		210
Cadmium		M	2455	mg/kg	0.10		1.2	1.8	1.5	1.2		1.0
Chromium		M	2455	mg/kg	0.5		27	26	23	19		33
Molybdenum		M	2455	mg/kg	0.5		3.0	5.1	4.9	4.5		4.9
Antimony		N	2455	mg/kg	2.0		2.0	2.7	3.4	3.1		10
Copper		M	2455	mg/kg	0.50		47	41	29	52		89
Mercury		M	2455	mg/kg	0.05		0.26	0.47	0.20	0.82		0.94
Nickel		M	2455	mg/kg	0.50		41	43	40	44		44
Lead		M	2455	mg/kg	0.50		74	110	46	150		460
Selenium		M	2455	mg/kg	0.25		1.2	1.1	1.1	1.2		1.2
Zinc		M	2455	mg/kg	0.50		110	180	93	110		200
Chromium (Trivalent)		N	2490	mg/kg	1.0		27	26	23	19		33
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763631	1763632	1763633	1763634	1763635	1763636	1763637
Order No.:				Client Sample Ref.:		BH10	BH11	BH11	BH12	BH13	BH13	TP1
				Client Sample ID.:		BH10	BH11	BH11	BH12	BH13	BH13	TP1
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		3.0	1.0	2.5	1.0	1.0	2.0	0.7
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25	< 0.25		< 0.25
Aliphatic EPH >C10-C12 MC	EH_AL_2D_#1	M	2690	mg/kg	2.00		< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Aliphatic EPH >C12-C16 MC	EH_AL_2D_#1	M	2690	mg/kg	1.00		4.4	2.3	3.8	< 1.0		< 1.0
Aliphatic EPH >C16-C21 MC	EH_AL_2D_#1	M	2690	mg/kg	2.00		5.1	< 2.0	2.0	< 2.0		< 2.0
Aliphatic EPH >C21-C35 MC	EH_AL_2D_#1	M	2690	mg/kg	3.00		5.7	< 3.0	< 3.0	< 3.0		< 3.0
Aliphatic EPH >C35-C40 MC	EH_AL_2D_#1	N	2690	mg/kg	10.00		< 10	< 10	< 10	< 10		< 10
Total Aliphatic EPH >C10-C35 MC	EH_AL_2D_#1	M	2690	mg/kg	5.00		16	7.4	9.1	< 5.0		< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		< 0.25	< 0.25	< 0.25	< 0.25		< 0.25
Aromatic EPH >C10-C12 MC	EH_AR_2D_#1	U	2690	mg/kg	1.00		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Aromatic EPH >C12-C16 MC	EH_AR_2D_#1	U	2690	mg/kg	1.00		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Aromatic EPH >C16-C21 MC	EH_AR_2D_#1	U	2690	mg/kg	2.00		6.9	5.3	4.7	< 2.0		15
Aromatic EPH >C21-C35 MC	EH_AR_2D_#1	U	2690	mg/kg	2.00		12	7.7	6.4	< 2.0		5.2
Aromatic EPH >C35-C40 MC	EH_AR_2D_#1	N	2690	mg/kg	1.00		< 1.0	< 1.0	1.1	12		1.1
Total Aromatic EPH >C10-C35 MC	EH_AR_2D_#1	U	2690	mg/kg	5.00		19	13	11	< 5.0		20
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
Total EPH >C10-C35 MC	EH_Total_2D_#1	U	2690	mg/kg	10.00		35	20	20	< 10		22
Total Organic Carbon		M	2625	%	0.20		2.3	2.0	1.9	4.7		7.6
Mineral Oil EPH	EH_AL_2D_#1	N	2670	mg/kg	10		16	< 10	< 10	< 10		< 10
Benzene		M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Toluene		M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Ethylbenzene		M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
m & p-Xylene		M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
o-Xylene		M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Naphthalene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Phenanthrene		M	2800	mg/kg	0.10		0.19	0.58	< 0.10	< 0.10		1.8
Anthracene		M	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10		0.39
Fluoranthene		M	2800	mg/kg	0.10		0.40	1.0	0.15	< 0.10		2.9
Pyrene		M	2800	mg/kg	0.10		0.37	0.87	0.13	< 0.10		2.4
Benzo[a]anthracene		M	2800	mg/kg	0.10		< 0.10	0.42	< 0.10	< 0.10		1.3

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656	24-03656	24-03656	24-03656	24-03656	24-03656	24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763631	1763632	1763633	1763634	1763635	1763636	1763637
Order No.:				Client Sample Ref.:		BH10	BH11	BH11	BH12	BH13	BH13	TP1
				Client Sample ID.:		BH10	BH11	BH11	BH12	BH13	BH13	TP1
				Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):		3.0	1.0	2.5	1.0	1.0	2.0	0.7
				Date Sampled:		02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024	02-Feb-2024
				Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY	COVENTRY		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**							
Chrysene		M	2800	mg/kg	0.10		< 0.10	0.44	< 0.10	< 0.10		1.1
Benzo[b]fluoranthene		M	2800	mg/kg	0.10		< 0.10	0.63	< 0.10	< 0.10		1.6
Benzo[k]fluoranthene		M	2800	mg/kg	0.10		< 0.10	0.24	< 0.10	< 0.10		0.54
Benzo[a]pyrene		M	2800	mg/kg	0.10		< 0.10	0.42	< 0.10	< 0.10		1.2
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10		< 0.10	0.34	< 0.10	< 0.10		0.81
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10		0.15
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10		< 0.10	0.36	< 0.10	< 0.10		0.80
Coronene		N	2800	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10		< 0.10
Total Of 17 PAH's Lower		N	2800	mg/kg	1.0		< 1.0	5.3	< 1.0	< 1.0		15
PCB 28		U	2815	mg/kg	0.010		< 0.010	< 0.010	< 0.010	< 0.010		< 0.010
PCB 52		U	2815	mg/kg	0.010		< 0.010	< 0.010	< 0.010	< 0.010		< 0.010
PCB 101		U	2815	mg/kg	0.010		< 0.010	< 0.010	< 0.010	< 0.010		< 0.010
PCB 118		U	2815	mg/kg	0.010		< 0.010	< 0.010	< 0.010	< 0.010		< 0.010
PCB 153		U	2815	mg/kg	0.010		< 0.010	< 0.010	< 0.010	< 0.010		< 0.010
PCB 138		U	2815	mg/kg	0.010		< 0.010	< 0.010	< 0.010	< 0.010		< 0.010
PCB 180		U	2815	mg/kg	0.010		< 0.010	< 0.010	< 0.010	< 0.010		< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05		< 0.05	< 0.05	< 0.05	< 0.05		< 0.05
Total Phenols		M	2920	mg/kg	0.10		< 0.10	< 0.10	< 0.10	< 0.10		< 0.10

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763638
Order No.:				Client Sample Ref.:		TP1
				Client Sample ID.:		TP1
				Sample Type:		SOIL
				Top Depth (m):		1.3
				Date Sampled:		02-Feb-2024
				Asbestos Lab:		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	20
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones
Soil Texture		N	2040		N/A	Clay
pH at 20C		M	2010		4.0	8.1
pH (2.5:1) at 20C		N	2010		4.0	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	1.0
Magnesium (Water Soluble)		N	2120	g/l	0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	
Total Sulphur		U	2175	%	0.010	
Sulphur (Elemental)		M	2180	mg/kg	1.0	3.7
Chloride (Water Soluble)		M	2220	g/l	0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	3.1
Ammonium (Water Soluble)		M	2220	g/l	0.01	
Sulphate (Total)		U	2430	%	0.010	0.11
Sulphate (Acid Soluble)		U	2430	%	0.010	
Arsenic		M	2455	mg/kg	0.5	19
Barium		M	2455	mg/kg	0	150
Cadmium		M	2455	mg/kg	0.10	1.8
Chromium		M	2455	mg/kg	0.5	24
Molybdenum		M	2455	mg/kg	0.5	6.0
Antimony		N	2455	mg/kg	2.0	9.0
Copper		M	2455	mg/kg	0.50	41
Mercury		M	2455	mg/kg	0.05	0.28
Nickel		M	2455	mg/kg	0.50	39
Lead		M	2455	mg/kg	0.50	110
Selenium		M	2455	mg/kg	0.25	1.1
Zinc		M	2455	mg/kg	0.50	150
Chromium (Trivalent)		N	2490	mg/kg	1.0	24
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763638
Order No.:				Client Sample Ref.:		TP1
				Client Sample ID.:		TP1
				Sample Type:		SOIL
				Top Depth (m):		1.3
				Date Sampled:		02-Feb-2024
				Asbestos Lab:		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**	
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_AL_2D_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C12-C16 MC	EH_AL_2D_#1	M	2690	mg/kg	1.00	< 1.0
Aliphatic EPH >C16-C21 MC	EH_AL_2D_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C21-C35 MC	EH_AL_2D_#1	M	2690	mg/kg	3.00	< 3.0
Aliphatic EPH >C35-C40 MC	EH_AL_2D_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_AL_2D_#1	M	2690	mg/kg	5.00	< 5.0
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_AR_2D_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_AR_2D_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_AR_2D_#1	U	2690	mg/kg	2.00	< 2.0
Aromatic EPH >C21-C35 MC	EH_AR_2D_#1	U	2690	mg/kg	2.00	< 2.0
Aromatic EPH >C35-C40 MC	EH_AR_2D_#1	N	2690	mg/kg	1.00	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_AR_2D_#1	U	2690	mg/kg	5.00	< 5.0
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_Total_2D_#1	U	2690	mg/kg	10.00	< 10
Total Organic Carbon		M	2625	%	0.20	2.0
Mineral Oil EPH	EH_AL_2D_#1	N	2670	mg/kg	10	< 10
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10

Results - Soil

Project: 25000 Croke Villas

Client: IGSL				**Chemtest Job No.:**		24-03656
Quotation No.: Q20-21693				**Chemtest Sample ID.:**		1763638
Order No.:				Client Sample Ref.:		TP1
				Client Sample ID.:		TP1
				Sample Type:		SOIL
				Top Depth (m):		1.3
				Date Sampled:		02-Feb-2024
				Asbestos Lab:		COVENTRY
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**	
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10
Total Of 17 PAH's Lower		N	2800	mg/kg	1.0	< 1.0
PCB 28		U	2815	mg/kg	0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763617							
Sample Ref:	BH1							
Sample ID:	BH1							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	1.9	3	5	6
Loss On Ignition	2610		M	%	4.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.011	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0021	0.021	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0013	0.013	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.015	0.15	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0027	0.027	0.06	0.7	5
Selenium	1455		U	0.0007	0.0068	0.1	0.5	7
Zinc	1455		U	0.038	0.38	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	5.8	58	1000	20000	50000
Total Dissolved Solids	1020		N	48	480	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763618							
Sample Ref:	BH2							
Sample ID:	BH2							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	5.2	3	5	6
Loss On Ignition	2610		M	%	5.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	0.32	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	780	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.017	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0049	0.049	0.5	2	25
Barium	1455		U	0.015	0.15	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0014	0.014	0.5	10	70
Copper	1455		U	0.0038	0.038	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0023	0.024	0.5	10	30
Nickel	1455		U	0.0010	0.0095	0.4	10	40
Lead	1455		U	0.0064	0.065	0.5	10	50
Antimony	1455		U	0.0050	0.050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0068	0.1	0.5	7
Zinc	1455		U	0.024	0.24	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.23	2.3	10	150	500
Sulphate	1220		U	4.7	47	1000	20000	50000
Total Dissolved Solids	1020		N	62	620	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763620							
Sample Ref:	BH3							
Sample ID:	BH3							
Sample Location:								
Top Depth(m):	2.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	8.1	3	5	6
Loss On Ignition	2610		M	%	10	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	57	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.011	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.017	0.17	0.5	2	25
Barium	1455		U	0.005	0.054	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0022	0.022	0.5	10	70
Copper	1455		U	0.0044	0.044	2	50	100
Mercury	1455		U	0.00017	0.0017	0.01	0.2	2
Molybdenum	1455		U	0.0065	0.065	0.5	10	30
Nickel	1455		U	0.0012	0.013	0.4	10	40
Lead	1455		U	0.0033	0.033	0.5	10	50
Antimony	1455		U	0.012	0.12	0.06	0.7	5
Selenium	1455		U	0.0016	0.016	0.1	0.5	7
Zinc	1455		U	0.022	0.22	4	50	200
Chloride	1220		U	2.4	24	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	51	510	1000	20000	50000
Total Dissolved Solids	1020		N	120	1200	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	20

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763621							
Sample Ref:	BH4							
Sample ID:	BH4							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	8.5	3	5	6
Loss On Ignition	2610		M	%	15	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	230	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.011	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0046	0.046	0.5	2	25
Barium	1455		U	0.022	0.22	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0024	0.024	0.5	10	70
Copper	1455		U	0.0064	0.064	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0021	0.021	0.5	10	30
Nickel	1455		U	0.0013	0.013	0.4	10	40
Lead	1455		U	0.017	0.17	0.5	10	50
Antimony	1455		U	0.049	0.49	0.06	0.7	5
Selenium	1455		U	0.0005	0.0054	0.1	0.5	7
Zinc	1455		U	0.038	0.38	4	50	200
Chloride	1220		U	2.4	24	800	15000	25000
Fluoride	1220		U	0.34	3.4	10	150	500
Sulphate	1220		U	18	180	1000	20000	50000
Total Dissolved Solids	1020		N	100	1000	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	5.3	53	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763622							
Sample Ref:	BH4							
Sample ID:	BH4							
Sample Location:								
Top Depth(m):	3.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	0.41	3	5	6
Loss On Ignition	2610		M	%	2.1	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.018	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0002	0.0021	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0008	0.0079	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.021	0.21	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0007	0.0072	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.024	0.24	4	50	200
Chloride	1220		U	1.0	10	800	15000	25000
Fluoride	1220		U	0.25	2.5	10	150	500
Sulphate	1220		U	11	110	1000	20000	50000
Total Dissolved Solids	1020		N	64	640	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	9.9

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763623							
Sample Ref:	BH5							
Sample ID:	BH5							
Sample Location:								
Top Depth(m):	1.0							
Bottom Depth(m):								
Sampling Date:	02-Feb-2024					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	12	3	5	6
Loss On Ignition	2610		M	%	10	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	780	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		10.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.010	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0038	0.038	0.5	2	25
Barium	1455		U	0.026	0.26	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0059	0.059	2	50	100
Mercury	1455		U	0.00028	0.0028	0.01	0.2	2
Molybdenum	1455		U	0.0059	0.059	0.5	10	30
Nickel	1455		U	0.0011	0.011	0.4	10	40
Lead	1455		U	0.021	0.21	0.5	10	50
Antimony	1455		U	0.25	2.5	0.06	0.7	5
Selenium	1455		U	0.0007	0.0066	0.1	0.5	7
Zinc	1455		U	0.023	0.23	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.29	2.9	10	150	500
Sulphate	1220		U	24	240	1000	20000	50000
Total Dissolved Solids	1020		N	86	860	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763625							
Sample Ref:	BH6							
Sample ID:	BH6							
Sample Location:								
Top Depth(m):	2.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	14	3	5	6
Loss On Ignition	2610		M	%	14	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	61	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.048	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.017	0.17	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0005	0.0051	0.5	10	70
Copper	1455		U	0.0031	0.031	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0031	0.031	0.5	10	30
Nickel	1455		U	0.0014	0.014	0.4	10	40
Lead	1455		U	0.0063	0.063	0.5	10	50
Antimony	1455		U	0.043	0.42	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.023	0.23	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.31	3.1	10	150	500
Sulphate	1220		U	1.4	14	1000	20000	50000
Total Dissolved Solids	1020		N	65	640	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.0	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	19

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763627							
Sample Ref:	BH7							
Sample ID:	BH7							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	5.3	3	5	6
Loss On Ignition	2610		M	%	6.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	200	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.031	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0059	0.060	0.5	2	25
Barium	1455		U	0.015	0.15	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0013	0.013	0.5	10	70
Copper	1455		U	0.0039	0.039	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0014	0.014	0.5	10	30
Nickel	1455		U	0.0010	0.0096	0.4	10	40
Lead	1455		U	0.0075	0.075	0.5	10	50
Antimony	1455		U	0.0055	0.055	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.026	0.26	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.19	1.9	10	150	500
Sulphate	1220		U	4.3	43	1000	20000	50000
Total Dissolved Solids	1020		N	62	620	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	26	260	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763628							
Sample Ref:	BH9							
Sample ID:	BH9							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	4.4	3	5	6
Loss On Ignition	2610		M	%	5.0	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	54	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.011	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.011	0.11	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0028	0.028	0.5	10	70
Copper	1455		U	0.0027	0.027	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0054	0.055	0.5	10	30
Nickel	1455		U	0.0009	0.0090	0.4	10	40
Lead	1455		U	0.0018	0.018	0.5	10	50
Antimony	1455		U	0.0027	0.027	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.021	0.21	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	8.5	85	1000	20000	50000
Total Dissolved Solids	1020		N	62	620	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	6.9	69	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763630							
Sample Ref:	BH10							
Sample ID:	BH10							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	1.6	3	5	6
Loss On Ignition	2610		M	%	3.6	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	30	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		9.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0090	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.013	0.13	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0005	0.0052	0.5	10	70
Copper	1455		U	0.0028	0.028	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0055	0.055	0.5	10	30
Nickel	1455		U	0.0012	0.012	0.4	10	40
Lead	1455		U	0.0011	0.011	0.5	10	50
Antimony	1455		U	0.0023	0.023	0.06	0.7	5
Selenium	1455		U	0.0010	0.0097	0.1	0.5	7
Zinc	1455		U	0.021	0.21	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.21	2.1	10	150	500
Sulphate	1220		U	8.6	86	1000	20000	50000
Total Dissolved Solids	1020		N	71	710	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	8.8	88	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763632							
Sample Ref:	BH11							
Sample ID:	BH11							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	2.3	3	5	6
Loss On Ignition	2610		M	%	4.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	40	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.013	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.018	0.18	0.5	2	25
Barium	1455		U	0.005	0.054	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0007	0.0065	0.5	10	70
Copper	1455		U	0.0041	0.041	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0070	0.070	0.5	10	30
Nickel	1455		U	0.0022	0.023	0.4	10	40
Lead	1455		U	0.0024	0.025	0.5	10	50
Antimony	1455		U	0.0019	0.019	0.06	0.7	5
Selenium	1455		U	0.0008	0.0081	0.1	0.5	7
Zinc	1455		U	0.023	0.23	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.28	2.8	10	150	500
Sulphate	1220		U	10	100	1000	20000	50000
Total Dissolved Solids	1020		N	72	720	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	6.6	66	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763633							
Sample Ref:	BH11							
Sample ID:	BH11							
Sample Location:								
Top Depth(m):	2.5					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	2.0	3	5	6
Loss On Ignition	2610		M	%	4.2	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	37	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		9.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0053	0.053	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0046	0.046	0.5	10	70
Copper	1455		U	0.0023	0.024	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.013	0.13	0.5	10	30
Nickel	1455		U	0.0013	0.013	0.4	10	40
Lead	1455		U	0.0014	0.014	0.5	10	50
Antimony	1455		U	0.0013	0.013	0.06	0.7	5
Selenium	1455		U	0.0006	0.0057	0.1	0.5	7
Zinc	1455		U	0.033	0.33	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	4.7	47	1000	20000	50000
Total Dissolved Solids	1020		N	68	680	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	12	120	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	16

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763634							
Sample Ref:	BH12							
Sample ID:	BH12							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	1.9	3	5	6
Loss On Ignition	2610		M	%	3.7	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.017	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0009	0.0093	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0008	0.0083	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0043	0.043	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0010	0.0099	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.025	0.25	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.081	< 1.0	10	150	500
Sulphate	1220		U	6.1	61	1000	20000	50000
Total Dissolved Solids	1020		N	44	440	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.2	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763635							
Sample Ref:	BH13							
Sample ID:	BH13							
Sample Location:								
Top Depth(m):	1.0					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	4.7	3	5	6
Loss On Ignition	2610		M	%	7.5	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.011	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0015	0.015	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0012	0.012	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0011	0.011	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.023	0.23	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.079	< 1.0	10	150	500
Sulphate	1220		U	36	360	1000	20000	50000
Total Dissolved Solids	1020		N	70	700	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763637							
Sample Ref:	TP1							
Sample ID:	TP1							
Sample Location:								
Top Depth(m):	0.7					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	7.6	3	5	6
Loss On Ignition	2610		M	%	11	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	57	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0043	0.043	0.5	2	25
Barium	1455		U	0.006	0.061	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0023	0.023	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0074	0.5	10	30
Nickel	1455		U	0.0008	0.0084	0.4	10	40
Lead	1455		U	0.0035	0.035	0.5	10	50
Antimony	1455		U	0.0024	0.024	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.037	0.37	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	2.9	29	1000	20000	50000
Total Dissolved Solids	1020		N	35	340	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	5.4	54	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	19

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25000 Croke Villas

Chemtest Job No:	24-03656					**Landfill Waste Acceptance Criteria Limits**		
Chemtest Sample ID:	1763638							
Sample Ref:	TP1							
Sample ID:	TP1							
Sample Location:								
Top Depth(m):	1.3					**Inert Waste Landfill**	**Stable, Non-reactive hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Bottom Depth(m):								
Sampling Date:	02-Feb-2024							
Determinand	**SOP**	**HWOL Code**	**Accred.**	**Units**				
Total Organic Carbon	2625		M	%	2.0	3	5	6
Loss On Ignition	2610		M	%	6.4	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total (of 17) PAHs						100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				**10:1 Eluate mg/l**	**10:1 Eluate mg/kg**	**Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg**		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455		U	0.0007	0.0071	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0018	0.018	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.026	0.26	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.079	< 1.0	10	150	500
Sulphate	1220		U	1.8	18	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.4	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	20

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity 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.	
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).	
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	
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.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
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	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurememt by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Allkaline 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.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
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	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
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*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane 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.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

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

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water

Report Information

RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Appendix 3

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:

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

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

42QTK-WIUI6-9COY8

Job name

24-001-12 Croke Villas (17 05 04)

Description/Comments

5 No. Composite Samples from 2 No. Trial Pits and 3 No. Cable Percussion Boreholes

Project

24-001-12

Site

Croke Villas

Classified by

Name:
Austin Hynes
Date:
22 Mar 2024 16:27 GMT
Telephone:
+353 (0)21 4345366

Company:
O'Callaghan Moran & Associates
Unit 15 Melbourne Business Park,
Model Farm Road
Cork

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

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	06 Oct 2022

Next 3 year Refresher due by Oct 2025

Purpose of classification

7 - Disposal of Waste

Address of the waste

Croke Villas, Sackville Avenue, Drumcondra, Dublin 3 **Post Code** NA

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Site Investigation

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

Excavation

Description of the waste

Soil and Stone

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP1	1.3	Non Hazardous		3
2	TP9	1.50	Non Hazardous		6
3	BH3	2.0	Hazardous	HP 7, HP 14	9
4	BH4	3.0	Non Hazardous		12
5	BH11	2.5	Non Hazardous		15

Related documents

#	Name	Description
1	OCM Waste Stream Updated 2021	waste stream template used to create this Job

Report

Created by: Austin Hynes

Created date: 22 Mar 2024 16:27 GMT

Classification of sample: TP1

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

Sample details

Sample name:
TP1
Sample Depth:
1.3 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		9 mg/kg	1.197	10.774 mg/kg	0.00108 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.8 mg/kg	1.142	2.056 mg/kg	0.000206 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41 mg/kg	1.126	46.161 mg/kg	0.00462 %		
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	110 mg/kg	1.56	171.58 mg/kg	0.011 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.28 mg/kg	1.353	0.379 mg/kg	0.0000379 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		6 mg/kg	1.5	9.001 mg/kg	0.0009 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		39 mg/kg	2.976	116.074 mg/kg	0.0116 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1 mg/kg	2.554	2.809 mg/kg	0.000281 %		
13	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		150 mg/kg	2.774	416.122 mg/kg	0.0416 %		
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<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
		EU CLP index number	EC Number	CAS Number									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
27		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
29		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
30		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		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									
35		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0791 %		

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 Deteminand - 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: TP9

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

Sample details

Sample name:
TP9
Sample Depth:
1.50 m
Moisture content:
9.6%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.6% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2.3 mg/kg	1.197	2.753 mg/kg	0.000275 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.69 mg/kg	3.22	2.222 mg/kg	0.000222 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.5 mg/kg	1.142	1.713 mg/kg	0.000171 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40 mg/kg	1.126	45.036 mg/kg	0.0045 %		
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	75 mg/kg	1.56	116.986 mg/kg	0.0075 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.34 mg/kg	1.353	0.46 mg/kg	0.000046 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4 mg/kg	1.5	6.001 mg/kg	0.0006 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		44 mg/kg	2.976	130.956 mg/kg	0.0131 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2 mg/kg	2.554	3.065 mg/kg	0.000306 %		
13	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		150 mg/kg	2.774	416.122 mg/kg	0.0416 %		
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<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
		EU CLP index number	EC Number	CAS Number									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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 }				0.9	mg/kg	1.884	1.696	mg/kg	0.00017 %		
		006-007-00-5											
21		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
27		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
			205-912-4	206-44-0									
29		pyrene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				0.36	mg/kg		0.36	mg/kg	0.000036 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0751 %		

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 Deteminand - 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: BH3

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

Sample details

Sample name:
BH3
Sample Depth:
2.0 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
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.: 1.026%)

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.: 0.16%)

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.: 0.16%)
zinc chromate: (compound conc.: 1.026%)

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		5.3 mg/kg	1.197	6.345 mg/kg	0.000634 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	26.407 mg/kg	0.00264 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.5 mg/kg	3.22	4.83 mg/kg	0.000483 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		10 mg/kg	1.142	11.423 mg/kg	0.00114 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		200 mg/kg	1.462	292.311 mg/kg	0.0292 %		

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		67 mg/kg	1.126	75.435 mg/kg	0.00754 %		
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1600 mg/kg	1.56	2495.704 mg/kg	0.16 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.53 mg/kg	1.353	0.717 mg/kg	0.0000717 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3.5 mg/kg	1.5	5.251 mg/kg	0.000525 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		43 mg/kg	2.976	127.979 mg/kg	0.0128 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.9 mg/kg	2.554	4.852 mg/kg	0.000485 %		
13	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		3700 mg/kg	2.774	10264.342 mg/kg	1.026 %		
14	TPH (C6 to C40) petroleum group			TPH		43 mg/kg		43 mg/kg	0.0043 %		
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20	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				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
21	pH			PH		8.4 pH		8.4 pH	8.4 pH		
22	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	phenanthrene		201-581-5	85-01-8		0.93 mg/kg		0.93 mg/kg	0.000093 %		
27	anthracene		204-371-1	120-12-7		0.24 mg/kg		0.24 mg/kg	0.000024 %		
28	fluoranthene		205-912-4	206-44-0		1.3 mg/kg		1.3 mg/kg	0.00013 %		
29	pyrene		204-927-3	129-00-0		1.2 mg/kg		1.2 mg/kg	0.00012 %		
30	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.61 mg/kg		0.61 mg/kg	0.000061 %		
31	chrysene	601-048-00-0	205-923-4	218-01-9		0.72 mg/kg		0.72 mg/kg	0.000072 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
32		benzo[b]fluoranthene				0.86	mg/kg		0.86	mg/kg	0.000086 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				0.66	mg/kg		0.66	mg/kg	0.000066 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	1.247 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0043%)

Classification of sample: BH4

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

Sample details

Sample name:
BH4
Sample Depth:
3.0 m
Moisture content:
9.9%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.9% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2 mg/kg	1.197	2.394 mg/kg	0.000239 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<**LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2.3 mg/kg	1.142	2.627 mg/kg	0.000263 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32 mg/kg	1.126	36.028 mg/kg	0.0036 %		
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	29 mg/kg	1.56	45.235 mg/kg	0.0029 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.06 mg/kg	1.353	0.0812 mg/kg	0.00000812 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		5.1 mg/kg	1.5	7.651 mg/kg	0.000765 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		53 mg/kg	2.976	157.742 mg/kg	0.0158 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1 mg/kg	2.554	2.809 mg/kg	0.000281 %		
13	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		98 mg/kg	2.774	271.866 mg/kg	0.0272 %		
14	TPH (C6 to C40) petroleum group			TPH		12 mg/kg		12 mg/kg	0.0012 %		
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<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
		EU CLP index number	EC Number	CAS Number									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
27		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
29		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
30		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		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									
35		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0569 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0012%)

Classification of sample: BH11

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

Sample details

Sample name:
BH11
Sample Depth:
2.5 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2.7	mg/kg	1.197	3.232	mg/kg	0.000323 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18	mg/kg	1.32	23.766	mg/kg	0.00238 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.44	mg/kg	3.22	1.417	mg/kg	0.000142 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.8	mg/kg	1.142	2.056	mg/kg	0.000206 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26	mg/kg	1.462	38	mg/kg	0.0038 %		
6	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				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41	mg/kg	1.126	46.161	mg/kg	0.00462 %		
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	110	mg/kg	1.56	171.58	mg/kg	0.011 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.47	mg/kg	1.353	0.636	mg/kg	0.0000636 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		5.1	mg/kg	1.5	7.651	mg/kg	0.000765 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		43	mg/kg	2.976	127.979	mg/kg	0.0128 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1	mg/kg	2.554	2.809	mg/kg	0.000281 %		
13	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		180	mg/kg	2.774	499.346	mg/kg	0.0499 %		
14	TPH (C6 to C40) petroleum group			TPH		20	mg/kg		20	mg/kg	0.002 %		
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<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
		EU CLP index number	EC Number	CAS Number									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				9	pH		9	pH	9pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				0.58	mg/kg		0.58	mg/kg	0.000058 %		
			201-581-5	85-01-8									
27		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
			205-912-4	206-44-0									
29		pyrene				0.87	mg/kg		0.87	mg/kg	0.000087 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				0.44	mg/kg		0.44	mg/kg	0.000044 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				0.63	mg/kg		0.63	mg/kg	0.000063 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				0.36	mg/kg		0.36	mg/kg	0.000036 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0891 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.002%)

Appendix A: Classifier defined and non EU CLP 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

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

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

EU CLP index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

EU CLP 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):
14 Dec 2015 - 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

polychlorobiphenyls; PCB (EC Number: 215-648-1, CAS Number: 1336-36-3)

EU CLP index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings (edit as required)

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 (edit as required)

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 (edit as required)

cadmium {cadmium oxide}

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

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

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

molybdenum {molybdenum(VI) oxide}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

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] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1.NI - Jan 2021
HazWasteOnline Classification Engine Version: 2024.80.5988.11077 (20 Mar 2024)
HazWasteOnline Database: 2024.80.5988.11077 (20 Mar 2024)

This classification utilises the following guidance and legislation:
WM3 v1.1.NI - Waste Classification - 1st Edition v1.1.NI - Jan 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
17th ATP - Regulation (EU) 2021/849 of 11 March 2021
18th ATP - Regulation (EU) 2022/692 of 16 February 2022
19th ATP - Regulation (EU) 2023/1434 of 25 April 2023
20th ATP - Regulation (EU) 2023/1435 of 2 May 2023

environmental management for business

HazWasteOnline™

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:

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

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

TS8XD-TAF3G-8YZJ4

Job name

24-001-12 Croke Villas (17 09 04)

Description/Comments

24 Composite Samples from 11 No. Trial Pits and 11 No. Cable Percussion Boreholes.

Project

24-001-12

Site

Croke Villas

Classified by

Name:
Austin Hynes
Date:
22 Mar 2024 16:32 GMT
Telephone:
+353 (0)21 4345366

Company:
O'Callaghan Moran & Associates
Unit 15 Melbourne Business Park,
Model Farm Road
Cork

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

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	06 Oct 2022

Next 3 year Refresher due by Oct 2025

Purpose of classification

7 - Disposal of Waste

Address of the waste

Croke Villas, Sackville Avenue, Drumcondra, Dublin 3 **Post Code** NA

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Site Investigation

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

Excavation

Description of the waste

Construction and Demolition Waste

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP1	0.7	Non Hazardous		3
2	TP2	0.70	Hazardous	HP 14	6
3	TP2[2]	1.40	Hazardous	HP 14	9
4	TP3	0.80	Non Hazardous		12
5	TP4	0.80	Non Hazardous		15
6	TP5	0.80	Non Hazardous		18
7	TP5[2]	2.50	Non Hazardous		21
8	TP6	0.70	Non Hazardous		24
9	TP7	0.70	Non Hazardous		27
10	TP8	0.60	Non Hazardous		30
11	TP9	0.70	Non Hazardous		33
12	TP10	0.70	Non Hazardous		36
13	TP11	0.80	Non Hazardous		39
14	BH1	1.0	Non Hazardous		42
15	BH2	1.0	Non Hazardous		45
16	BH4	1.0	Non Hazardous		48
17	BH5	1.0	Non Hazardous		51
18	BH6	2.0	Non Hazardous		54
19	BH7	1.0	Non Hazardous		57
20	BH9	1.0	Non Hazardous		60
21	BH10	1.0	Non Hazardous		63
22	BH11	1.0	Non Hazardous		66
23	BH12	1.0	Non Hazardous		69
24	BH13	1.0	Non Hazardous		72

Related documents

#	Name	Description
1	OCM Waste Stream Updated 2021	waste stream template used to create this Job

Report

Created by: Austin Hynes

Created date: 22 Mar 2024 16:32 GMT

Classification of sample: TP1

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP1
Sample Depth:
0.7 m
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		10 mg/kg	1.197	11.971 mg/kg	0.0012 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		24 mg/kg	1.32	31.688 mg/kg	0.00317 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.9 mg/kg	3.22	6.118 mg/kg	0.000612 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1 mg/kg	1.142	1.142 mg/kg	0.000114 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		33 mg/kg	1.462	48.231 mg/kg	0.00482 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		89 mg/kg	1.126	100.204 mg/kg	0.01 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	460 mg/kg		460 mg/kg	0.046 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.94 mg/kg	1.353	1.272 mg/kg	0.000127 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4.9 mg/kg	1.5	7.351 mg/kg	0.000735 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		44 mg/kg	2.976	130.956 mg/kg	0.0131 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2 mg/kg	2.554	3.065 mg/kg	0.000306 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		200 mg/kg	1.245	248.943 mg/kg	0.0249 %		
14	TPH (C6 to C40) petroleum group			TPH		22 mg/kg		22 mg/kg	0.0022 %		

#		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		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			201-581-5	85-01-8									
27		anthracene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			204-371-1	120-12-7									
28		fluoranthene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
			205-912-4	206-44-0									
29		pyrene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				0.81	mg/kg		0.81	mg/kg	0.000081 %		
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.109 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0022%)

Classification of sample: TP2

Hazardous Waste
Classified as **17 09 03 ***
in the List of Waste

Sample details

Sample name:
TP2
Sample Depth:
0.70 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 03 * (Other construction and demolition wastes (including mixed wastes) containing hazardous substances)

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc oxide: (compound conc.: 0.373%)

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		14 mg/kg	1.197	16.759 mg/kg	0.00168 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.3 mg/kg	3.22	4.186 mg/kg	0.000419 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2.6 mg/kg	1.142	2.97 mg/kg	0.000297 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52 mg/kg	1.126	58.546 mg/kg	0.00585 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	490 mg/kg		490 mg/kg	0.049 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.72 mg/kg	1.353	0.975 mg/kg	0.0000975 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4 mg/kg	1.5	6.001 mg/kg	0.0006 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.976	92.264 mg/kg	0.00923 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.7 mg/kg	2.554	4.342 mg/kg	0.000434 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		3000	mg/kg	1.245	3734.142	mg/kg	0.373 %		
14		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
21		pH			PH		7.9	pH		7.9	pH	7.9 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		0.72	mg/kg		0.72	mg/kg	0.000072 %		
23		acenaphthylene		205-917-1	208-96-8		0.43	mg/kg		0.43	mg/kg	0.000043 %		
24		acenaphthene		201-469-6	83-32-9		0.17	mg/kg		0.17	mg/kg	0.000017 %		
25		fluorene		201-695-5	86-73-7		0.32	mg/kg		0.32	mg/kg	0.000032 %		
26		phenanthrene		201-581-5	85-01-8		3.8	mg/kg		3.8	mg/kg	0.00038 %		
27		anthracene		204-371-1	120-12-7		0.83	mg/kg		0.83	mg/kg	0.000083 %		
28		fluoranthene		205-912-4	206-44-0		4.4	mg/kg		4.4	mg/kg	0.00044 %		
29		pyrene		204-927-3	129-00-0		3.5	mg/kg		3.5	mg/kg	0.00035 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.9	mg/kg		1.9	mg/kg	0.00019 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		1.9	mg/kg		1.9	mg/kg	0.00019 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.3	mg/kg		2.3	mg/kg	0.00023 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.81	mg/kg		0.81	mg/kg	0.000081 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.7	mg/kg		1.7	mg/kg	0.00017 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		1	mg/kg		1	mg/kg	0.0001 %		
36		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.21	mg/kg		0.21	mg/kg	0.000021 %		
37		benzo[ghi]perylene		205-883-8	191-24-2		0.99	mg/kg		0.99	mg/kg	0.000099 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number							
39		polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3							
								Total:	0.45 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - 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: TP2[2]

Hazardous Waste
Classified as **17 09 03 ***
in the List of Waste

Sample details

Sample name:
TP2[2]
Sample Depth:
1.40 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 03 * (Other construction and demolition wastes (including mixed wastes) containing hazardous substances)

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc oxide: (compound conc.: 0.373%)

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		12 mg/kg	1.197	14.365 mg/kg	0.00144 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.6 mg/kg	3.22	5.152 mg/kg	0.000515 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2.3 mg/kg	1.142	2.627 mg/kg	0.000263 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52 mg/kg	1.126	58.546 mg/kg	0.00585 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	480 mg/kg		480 mg/kg	0.048 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.7 mg/kg	1.353	0.947 mg/kg	0.0000947 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3.6 mg/kg	1.5	5.401 mg/kg	0.00054 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.976	77.383 mg/kg	0.00774 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.53 mg/kg	2.554	1.354 mg/kg	0.000135 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		3000	mg/kg	1.245	3734.142	mg/kg	0.373 %		
14		TPH (C6 to C40) petroleum group			TPH		64	mg/kg		64	mg/kg	0.0064 %		
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
21		pH			PH		8	pH		8	pH	8pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		0.49	mg/kg		0.49	mg/kg	0.000049 %		
23		acenaphthylene		205-917-1	208-96-8		0.34	mg/kg		0.34	mg/kg	0.000034 %		
24		acenaphthene		201-469-6	83-32-9		0.12	mg/kg		0.12	mg/kg	0.000012 %		
25		fluorene		201-695-5	86-73-7		0.26	mg/kg		0.26	mg/kg	0.000026 %		
26		phenanthrene		201-581-5	85-01-8		2.7	mg/kg		2.7	mg/kg	0.00027 %		
27		anthracene		204-371-1	120-12-7		0.59	mg/kg		0.59	mg/kg	0.000059 %		
28		fluoranthene		205-912-4	206-44-0		2.7	mg/kg		2.7	mg/kg	0.00027 %		
29		pyrene		204-927-3	129-00-0		2.3	mg/kg		2.3	mg/kg	0.00023 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.2	mg/kg		1.2	mg/kg	0.00012 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		1.3	mg/kg		1.3	mg/kg	0.00013 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.4	mg/kg		1.4	mg/kg	0.00014 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.6	mg/kg		0.6	mg/kg	0.00006 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1	mg/kg		1	mg/kg	0.0001 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		0.64	mg/kg		0.64	mg/kg	0.000064 %		
36		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.16	mg/kg		0.16	mg/kg	0.000016 %		
37		benzo[ghi]perylene		205-883-8	191-24-2		0.72	mg/kg		0.72	mg/kg	0.000072 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<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
		EU CLP index number	EC Number	CAS Number							
39		polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3							
								Total:	0.452 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0064%)

Classification of sample: TP3

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP3
Sample Depth:
0.80 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		15 mg/kg	1.197	17.957 mg/kg	0.0018 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		29 mg/kg	1.32	38.289 mg/kg	0.00383 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.3 mg/kg	3.22	4.186 mg/kg	0.000419 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		140 mg/kg	1.126	157.624 mg/kg	0.0158 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	860 mg/kg		860 mg/kg	0.086 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2.3 mg/kg	1.353	3.113 mg/kg	0.000311 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4.8 mg/kg	1.5	7.201 mg/kg	0.00072 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		45 mg/kg	2.976	133.932 mg/kg	0.0134 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.6 mg/kg	2.554	4.086 mg/kg	0.000409 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		310 mg/kg	1.245	385.861 mg/kg	0.0386 %		
14	TPH (C6 to C40) petroleum group			TPH		29 mg/kg		29 mg/kg	0.0029 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20		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				0.7	mg/kg	1.884	1.319	mg/kg	0.000132 %		
21		pH			PH		8.1	pH		8.1	pH	8.1 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		phenanthrene		201-581-5	85-01-8		0.88	mg/kg		0.88	mg/kg	0.000088 %		
27		anthracene		204-371-1	120-12-7		0.18	mg/kg		0.18	mg/kg	0.000018 %		
28		fluoranthene		205-912-4	206-44-0		1.1	mg/kg		1.1	mg/kg	0.00011 %		
29		pyrene		204-927-3	129-00-0		0.97	mg/kg		0.97	mg/kg	0.000097 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.53	mg/kg		0.53	mg/kg	0.000053 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		0.57	mg/kg		0.57	mg/kg	0.000057 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.65	mg/kg		0.65	mg/kg	0.000065 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.21	mg/kg		0.21	mg/kg	0.000021 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.5	mg/kg		0.5	mg/kg	0.00005 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		0.32	mg/kg		0.32	mg/kg	0.000032 %		
36		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**
37		benzo[ghi]perylene		205-883-8	191-24-2		0.31	mg/kg		0.31	mg/kg	0.000031 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
											Total:	0.168 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0029%)

Classification of sample: TP4

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP4
Sample Depth:
0.80 m
Moisture content:
15%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		10 mg/kg	1.197	11.971 mg/kg	0.0012 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		37 mg/kg	1.32	48.852 mg/kg	0.00489 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.85 mg/kg	3.22	2.737 mg/kg	0.000274 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2 mg/kg	1.142	1.371 mg/kg	0.000137 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		360 mg/kg	1.126	405.32 mg/kg	0.0405 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	610 mg/kg		610 mg/kg	0.061 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.4 mg/kg	1.353	1.895 mg/kg	0.000189 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		6.3 mg/kg	1.5	9.451 mg/kg	0.000945 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		65 mg/kg	2.976	193.457 mg/kg	0.0193 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.5 mg/kg	2.554	3.831 mg/kg	0.000383 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		340 mg/kg	1.245	423.203 mg/kg	0.0423 %		
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
22		naphthalene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			201-469-6	83-32-9									
25		fluorene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
			201-695-5	86-73-7									
26		phenanthrene				3	mg/kg		3	mg/kg	0.0003 %		
			201-581-5	85-01-8									
27		anthracene				0.52	mg/kg		0.52	mg/kg	0.000052 %		
			204-371-1	120-12-7									
28		fluoranthene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
			205-912-4	206-44-0									
29		pyrene				3	mg/kg		3	mg/kg	0.0003 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				0.59	mg/kg		0.59	mg/kg	0.000059 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				0.96	mg/kg		0.96	mg/kg	0.000096 %		
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				0.99	mg/kg		0.99	mg/kg	0.000099 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.178 %		

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 Deteminand - 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: TP5

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP5
Sample Depth:
0.80 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		4.9 mg/kg	1.197	5.866 mg/kg	0.000587 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22 mg/kg	1.32	29.047 mg/kg	0.0029 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.5 mg/kg	3.22	4.83 mg/kg	0.000483 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2 mg/kg	1.142	2.285 mg/kg	0.000228 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		83 mg/kg	1.126	93.449 mg/kg	0.00934 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	230 mg/kg		230 mg/kg	0.023 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.93 mg/kg	1.353	1.259 mg/kg	0.000126 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4 mg/kg	1.5	6.001 mg/kg	0.0006 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		46 mg/kg	2.976	136.908 mg/kg	0.0137 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.3 mg/kg	2.554	3.32 mg/kg	0.000332 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		280 mg/kg	1.245	348.52 mg/kg	0.0349 %		
14	TPH (C6 to C40) petroleum group			TPH		43 mg/kg		43 mg/kg	0.0043 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
21		pH			PH		8.5	pH		8.5	pH	8.5 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		phenanthrene		201-581-5	85-01-8		0.63	mg/kg		0.63	mg/kg	0.000063 %		
27		anthracene		204-371-1	120-12-7		0.14	mg/kg		0.14	mg/kg	0.000014 %		
28		fluoranthene		205-912-4	206-44-0		0.84	mg/kg		0.84	mg/kg	0.000084 %		
29		pyrene		204-927-3	129-00-0		0.7	mg/kg		0.7	mg/kg	0.00007 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.42	mg/kg		0.42	mg/kg	0.000042 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		0.34	mg/kg		0.34	mg/kg	0.000034 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.45	mg/kg		0.45	mg/kg	0.000045 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.16	mg/kg		0.16	mg/kg	0.000016 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.34	mg/kg		0.34	mg/kg	0.000034 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		0.23	mg/kg		0.23	mg/kg	0.000023 %		
36		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
37		benzo[ghi]perylene		205-883-8	191-24-2		0.22	mg/kg		0.22	mg/kg	0.000022 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
40		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
				77536-66-4 77536-68-6 77536-67-5 12001-29-5							
								Total:	0.0949 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0043%)

Classification of sample: TP5[2]

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP5[2]
Sample Depth:
2.50 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		19 mg/kg	1.197	22.745 mg/kg	0.00227 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23 mg/kg	1.32	30.367 mg/kg	0.00304 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2.1 mg/kg	1.142	2.399 mg/kg	0.00024 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		61 mg/kg	1.126	68.679 mg/kg	0.00687 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	210 mg/kg		210 mg/kg	0.021 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.75 mg/kg	1.353	1.015 mg/kg	0.000102 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3.3 mg/kg	1.5	4.951 mg/kg	0.000495 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		41 mg/kg	2.976	122.027 mg/kg	0.0122 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1 mg/kg	2.554	2.554 mg/kg	0.000255 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		220 mg/kg	1.245	273.837 mg/kg	0.0274 %		
14	TPH (C6 to C40) petroleum group			TPH		11 mg/kg		11 mg/kg	0.0011 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
21		pH			PH		8.3	pH		8.3	pH	8.3 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		1.5	mg/kg		1.5	mg/kg	0.00015 %		
23		acenaphthylene		205-917-1	208-96-8		0.21	mg/kg		0.21	mg/kg	0.000021 %		
24		acenaphthene		201-469-6	83-32-9		0.45	mg/kg		0.45	mg/kg	0.000045 %		
25		fluorene		201-695-5	86-73-7		0.71	mg/kg		0.71	mg/kg	0.000071 %		
26		phenanthrene		201-581-5	85-01-8		6.1	mg/kg		6.1	mg/kg	0.00061 %		
27		anthracene		204-371-1	120-12-7		1.5	mg/kg		1.5	mg/kg	0.00015 %		
28		fluoranthene		205-912-4	206-44-0		5.9	mg/kg		5.9	mg/kg	0.00059 %		
29		pyrene		204-927-3	129-00-0		4.5	mg/kg		4.5	mg/kg	0.00045 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.6	mg/kg		2.6	mg/kg	0.00026 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		2	mg/kg		2	mg/kg	0.0002 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.9	mg/kg		2.9	mg/kg	0.00029 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1	mg/kg		1	mg/kg	0.0001 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.2	mg/kg		2.2	mg/kg	0.00022 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		1.3	mg/kg		1.3	mg/kg	0.00013 %		
36		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
37		benzo[ghi]perylene		205-883-8	191-24-2		1.3	mg/kg		1.3	mg/kg	0.00013 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
											Total:	0.0816 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0011%)

Classification of sample: TP6

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP6
Sample Depth:
0.70 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		4.2 mg/kg	1.197	5.028 mg/kg	0.000503 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		33 mg/kg	1.32	43.571 mg/kg	0.00436 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.3 mg/kg	3.22	4.186 mg/kg	0.000419 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		88 mg/kg	1.126	99.078 mg/kg	0.00991 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	250 mg/kg		250 mg/kg	0.025 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.7 mg/kg	1.353	2.301 mg/kg	0.00023 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		7.1 mg/kg	1.5	10.651 mg/kg	0.00107 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		59 mg/kg	2.976	175.6 mg/kg	0.0176 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2 mg/kg	2.554	3.065 mg/kg	0.000306 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		190 mg/kg	1.245	236.496 mg/kg	0.0236 %		
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
21		pH			PH		8.1	pH		8.1	pH	8.1 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		phenanthrene		201-581-5	85-01-8		0.88	mg/kg		0.88	mg/kg	0.000088 %		
27		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		fluoranthene		205-912-4	206-44-0		0.74	mg/kg		0.74	mg/kg	0.000074 %		
29		pyrene		204-927-3	129-00-0		0.63	mg/kg		0.63	mg/kg	0.000063 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.31	mg/kg		0.31	mg/kg	0.000031 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		0.41	mg/kg		0.41	mg/kg	0.000041 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.5	mg/kg		0.5	mg/kg	0.00005 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.12	mg/kg		0.12	mg/kg	0.000012 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.3	mg/kg		0.3	mg/kg	0.00003 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		0.21	mg/kg		0.21	mg/kg	0.000021 %		
36		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
37		benzo[ghi]perylene		205-883-8	191-24-2		0.23	mg/kg		0.23	mg/kg	0.000023 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
											Total:	0.0875 %		

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 Deteminand - 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: TP7

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP7
Sample Depth:
0.70 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		4.9 mg/kg	1.197	5.866 mg/kg	0.000587 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	33.008 mg/kg	0.0033 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.1 mg/kg	3.22	3.542 mg/kg	0.000354 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1 mg/kg	1.142	1.142 mg/kg	0.000114 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		63 mg/kg	1.126	70.931 mg/kg	0.00709 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	320 mg/kg		320 mg/kg	0.032 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.353	1.353 mg/kg	0.000135 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3.4 mg/kg	1.5	5.101 mg/kg	0.00051 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		44 mg/kg	2.976	130.956 mg/kg	0.0131 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.96 mg/kg	2.554	2.452 mg/kg	0.000245 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		160 mg/kg	1.245	199.154 mg/kg	0.0199 %		
14	TPH (C6 to C40) petroleum group			TPH		15 mg/kg		15 mg/kg	0.0015 %		

#		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		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				0.54	mg/kg		0.54	mg/kg	0.000054 %		
			201-581-5	85-01-8									
27		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			205-912-4	206-44-0									
29		pyrene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		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									
35		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0815 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0015%)

Classification of sample: TP8

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP8
Sample Depth:
0.60 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.7	mg/kg	1.197	4.429	mg/kg	0.000443 %		
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18	mg/kg	1.32	23.766	mg/kg	0.00238 %		
3		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	2.4	mg/kg	3.22	7.728	mg/kg	0.000773 %		
4		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %		
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20	mg/kg	1.462	29.231	mg/kg	0.00292 %		
6		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				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		56	mg/kg	1.126	63.05	mg/kg	0.0063 %		
8		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	100	mg/kg		100	mg/kg	0.01 %		
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.54	mg/kg	1.353	0.731	mg/kg	0.0000731 %		
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3.1	mg/kg	1.5	4.651	mg/kg	0.000465 %		
11		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36	mg/kg	2.976	107.146	mg/kg	0.0107 %		
12		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.92	mg/kg	2.554	2.35	mg/kg	0.000235 %		
13		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		220	mg/kg	1.245	273.837	mg/kg	0.0274 %		
14		TPH (C6 to C40) petroleum group			TPH		11	mg/kg		11	mg/kg	0.0011 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
21		pH			PH		8	pH		8	pH	8pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		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**
37		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
											Total:	0.0633 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0011%)

Classification of sample: TP9

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP9
Sample Depth:
0.70 m
Moisture content:
15%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		6.3 mg/kg	1.197	7.542 mg/kg	0.000754 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		43 mg/kg	1.32	56.774 mg/kg	0.00568 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.1 mg/kg	3.22	3.542 mg/kg	0.000354 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2 mg/kg	1.142	2.285 mg/kg	0.000228 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		120 mg/kg	1.126	135.107 mg/kg	0.0135 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	420 mg/kg		420 mg/kg	0.042 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		3 mg/kg	1.353	4.06 mg/kg	0.000406 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		7.5 mg/kg	1.5	11.251 mg/kg	0.00113 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		64 mg/kg	2.976	190.481 mg/kg	0.019 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.4 mg/kg	2.554	3.575 mg/kg	0.000358 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		1100 mg/kg	1.245	1369.185 mg/kg	0.137 %		
14	TPH (C6 to C40) petroleum group			TPH		26 mg/kg		26 mg/kg	0.0026 %		

#		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		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**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]									
20		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 }				0.6	mg/kg	1.884	1.13	mg/kg	0.000113 %		
		006-007-00-5											
21		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
22		naphthalene				0.41	mg/kg		0.41	mg/kg	0.000041 %		
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			205-917-1	208-96-8									
24		acenaphthene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			201-469-6	83-32-9									
25		fluorene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
			201-695-5	86-73-7									
26		phenanthrene				3.5	mg/kg		3.5	mg/kg	0.00035 %		
			201-581-5	85-01-8									
27		anthracene				0.73	mg/kg		0.73	mg/kg	0.000073 %		
			204-371-1	120-12-7									
28		fluoranthene				8.2	mg/kg		8.2	mg/kg	0.00082 %		
			205-912-4	206-44-0									
29		pyrene				7.5	mg/kg		7.5	mg/kg	0.00075 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				4.6	mg/kg		4.6	mg/kg	0.00046 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				4	mg/kg		4	mg/kg	0.0004 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				7.6	mg/kg		7.6	mg/kg	0.00076 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				6.3	mg/kg		6.3	mg/kg	0.00063 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				4	mg/kg		4	mg/kg	0.0004 %		
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				0.82	mg/kg		0.82	mg/kg	0.000082 %		
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.232 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0026%)

Classification of sample: TP10

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP10
Sample Depth:
0.70 m
Moisture content:
7.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 7.5% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<**LOD**
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.46 mg/kg	3.22	1.481 mg/kg	0.000148 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.6 mg/kg	1.142	1.828 mg/kg	0.000183 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30 mg/kg	1.126	33.777 mg/kg	0.00338 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	49 mg/kg		49 mg/kg	0.0049 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.18 mg/kg	1.353	0.244 mg/kg	0.0000244 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4.6 mg/kg	1.5	6.901 mg/kg	0.00069 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		40 mg/kg	2.976	119.051 mg/kg	0.0119 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.4 mg/kg	2.554	3.575 mg/kg	0.000358 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110 mg/kg	1.245	136.919 mg/kg	0.0137 %		
14	TPH (C6 to C40) petroleum group			TPH		23 mg/kg		23 mg/kg	0.0023 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
21		pH			PH		8.8	pH		8.8	pH	8.8 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		phenanthrene		201-581-5	85-01-8		0.24	mg/kg		0.24	mg/kg	0.000024 %		
27		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		fluoranthene		205-912-4	206-44-0		0.3	mg/kg		0.3	mg/kg	0.00003 %		
29		pyrene		204-927-3	129-00-0		0.28	mg/kg		0.28	mg/kg	0.000028 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.22	mg/kg		0.22	mg/kg	0.000022 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		0.21	mg/kg		0.21	mg/kg	0.000021 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
35		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
36		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
37		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
											Total:	0.0428 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0023%)

Classification of sample: TP11

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
TP11
Sample Depth:
0.80 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2 mg/kg	1.197	2.394 mg/kg	0.000239 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.5 mg/kg	3.22	4.83 mg/kg	0.000483 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.5 mg/kg	1.142	1.713 mg/kg	0.000171 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30 mg/kg	1.126	33.777 mg/kg	0.00338 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	48 mg/kg		48 mg/kg	0.0048 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.19 mg/kg	1.353	0.257 mg/kg	0.0000257 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4.3 mg/kg	1.5	6.451 mg/kg	0.000645 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		38 mg/kg	2.976	113.098 mg/kg	0.0113 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.3 mg/kg	2.554	3.32 mg/kg	0.000332 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110 mg/kg	1.245	136.919 mg/kg	0.0137 %		
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
27		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
29		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
30		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		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									
35		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0408 %		

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 Deteminand - 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: BH1

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH1
Sample Depth:
1.0 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.7 mg/kg	1.197	4.429 mg/kg	0.000443 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.54 mg/kg	3.22	1.739 mg/kg	0.000174 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.4 mg/kg	1.142	1.599 mg/kg	0.00016 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25 mg/kg	1.126	28.147 mg/kg	0.00281 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	43 mg/kg		43 mg/kg	0.0043 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.18 mg/kg	1.353	0.244 mg/kg	0.0000244 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4.3 mg/kg	1.5	6.451 mg/kg	0.000645 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.976	92.264 mg/kg	0.00923 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2 mg/kg	2.554	3.065 mg/kg	0.000306 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		90 mg/kg	1.245	112.024 mg/kg	0.0112 %		
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18	●	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21	●	pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
27	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
29	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
30		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		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									
35	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
36		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									
37	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39	●	polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.035 %		

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 Deteminand - 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: BH2

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH2
Sample Depth:
1.0 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		9.2 mg/kg	1.197	11.013 mg/kg	0.0011 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.46 mg/kg	3.22	1.481 mg/kg	0.000148 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.74 mg/kg	1.142	0.845 mg/kg	0.0000845 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		45 mg/kg	1.126	50.665 mg/kg	0.00507 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	240 mg/kg		240 mg/kg	0.024 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.62 mg/kg	1.353	0.839 mg/kg	0.0000839 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.9 mg/kg	1.5	2.85 mg/kg	0.000285 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.976	74.407 mg/kg	0.00744 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.63 mg/kg	2.554	1.609 mg/kg	0.000161 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		180 mg/kg	1.245	224.049 mg/kg	0.0224 %		
14	TPH (C6 to C40) petroleum group			TPH		120 mg/kg		120 mg/kg	0.012 %		

#		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		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
22		naphthalene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-917-1	208-96-8									
24		acenaphthene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			201-469-6	83-32-9									
25		fluorene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			201-695-5	86-73-7									
26		phenanthrene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			201-581-5	85-01-8									
27		anthracene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
			204-371-1	120-12-7									
28		fluoranthene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
			205-912-4	206-44-0									
29		pyrene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				2	mg/kg		2	mg/kg	0.0002 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				0.32	mg/kg		0.32	mg/kg	0.000032 %		
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.08 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.012%)

Classification of sample: BH4

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH4
Sample Depth:
1.0 m
Moisture content:
15%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		150 mg/kg	1.197	179.565 mg/kg	0.018 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22 mg/kg	1.32	29.047 mg/kg	0.0029 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.84 mg/kg	3.22	2.705 mg/kg	0.00027 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2 mg/kg	1.142	1.371 mg/kg	0.000137 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		92 mg/kg	1.126	103.582 mg/kg	0.0104 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1300 mg/kg		1300 mg/kg	0.13 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.69 mg/kg	1.353	0.934 mg/kg	0.0000934 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.6 mg/kg	1.5	3.9 mg/kg	0.00039 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.976	86.312 mg/kg	0.00863 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.86 mg/kg	2.554	2.196 mg/kg	0.00022 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		700 mg/kg	1.245	871.3 mg/kg	0.0871 %		
14	TPH (C6 to C40) petroleum group			TPH		430 mg/kg		430 mg/kg	0.043 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20		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 %		
21		pH			PH		8.2	pH		8.2	pH	8.2 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		phenanthrene		201-581-5	85-01-8		2.6	mg/kg		2.6	mg/kg	0.00026 %		
27		anthracene		204-371-1	120-12-7		0.87	mg/kg		0.87	mg/kg	0.000087 %		
28		fluoranthene		205-912-4	206-44-0		10	mg/kg		10	mg/kg	0.001 %		
29		pyrene		204-927-3	129-00-0		10	mg/kg		10	mg/kg	0.001 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		6.5	mg/kg		6.5	mg/kg	0.00065 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		6.8	mg/kg		6.8	mg/kg	0.00068 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		11	mg/kg		11	mg/kg	0.0011 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3.9	mg/kg		3.9	mg/kg	0.00039 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		8.6	mg/kg		8.6	mg/kg	0.00086 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		5.7	mg/kg		5.7	mg/kg	0.00057 %		
36		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		1.1	mg/kg		1.1	mg/kg	0.00011 %		
37		benzo[ghi]perylene		205-883-8	191-24-2		5.4	mg/kg		5.4	mg/kg	0.00054 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
											Total:	0.312 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.043%)

Classification of sample: BH5

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH5
Sample Depth:
1.0 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		190 mg/kg	1.197	227.449 mg/kg	0.0227 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		36 mg/kg	1.462	52.616 mg/kg	0.00526 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		110 mg/kg	1.126	123.848 mg/kg	0.0124 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1100 mg/kg		1100 mg/kg	0.11 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		6.9 mg/kg	1.353	9.339 mg/kg	0.000934 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4.2 mg/kg	1.5	6.301 mg/kg	0.00063 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		44 mg/kg	2.976	130.956 mg/kg	0.0131 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.67 mg/kg	2.554	1.711 mg/kg	0.000171 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		220 mg/kg	1.245	273.837 mg/kg	0.0274 %		
14	TPH (C6 to C40) petroleum group			TPH		350 mg/kg		350 mg/kg	0.035 %		

#		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		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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 }				4.9	mg/kg	1.884	9.232	mg/kg	0.000923 %		
		006-007-00-5											
21		pH				10.2	pH		10.2	pH	10.2 pH		
				PH									
22		naphthalene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			205-917-1	208-96-8									
24		acenaphthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			201-469-6	83-32-9									
25		fluorene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			201-695-5	86-73-7									
26		phenanthrene				2	mg/kg		2	mg/kg	0.0002 %		
			201-581-5	85-01-8									
27		anthracene				0.86	mg/kg		0.86	mg/kg	0.000086 %		
			204-371-1	120-12-7									
28		fluoranthene				10	mg/kg		10	mg/kg	0.001 %		
			205-912-4	206-44-0									
29		pyrene				11	mg/kg		11	mg/kg	0.0011 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				6	mg/kg		6	mg/kg	0.0006 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				8.2	mg/kg		8.2	mg/kg	0.00082 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				6.6	mg/kg		6.6	mg/kg	0.00066 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				4.4	mg/kg		4.4	mg/kg	0.00044 %		
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				0.85	mg/kg		0.85	mg/kg	0.000085 %		
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				4.5	mg/kg		4.5	mg/kg	0.00045 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.237 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.035%)

Classification of sample: BH6

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH6
Sample Depth:
2.0 m
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		33 mg/kg	1.197	39.504 mg/kg	0.00395 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		46 mg/kg	1.32	60.735 mg/kg	0.00607 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.55 mg/kg	3.22	1.771 mg/kg	0.000177 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		100 mg/kg	1.126	112.589 mg/kg	0.0113 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	320 mg/kg		320 mg/kg	0.032 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2.4 mg/kg	1.353	3.248 mg/kg	0.000325 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		5.9 mg/kg	1.5	8.851 mg/kg	0.000885 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		49 mg/kg	2.976	145.837 mg/kg	0.0146 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.3 mg/kg	2.554	3.32 mg/kg	0.000332 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		160 mg/kg	1.245	199.154 mg/kg	0.0199 %		
14	TPH (C6 to C40) petroleum group			TPH		41 mg/kg		41 mg/kg	0.0041 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
21		pH			PH		8.4	pH		8.4	pH	8.4 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		phenanthrene		201-581-5	85-01-8		0.52	mg/kg		0.52	mg/kg	0.000052 %		
27		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		fluoranthene		205-912-4	206-44-0		0.49	mg/kg		0.49	mg/kg	0.000049 %		
29		pyrene		204-927-3	129-00-0		0.42	mg/kg		0.42	mg/kg	0.000042 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
31		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
35		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
36		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
37		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
											Total:	0.0964 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0041%)

Classification of sample: BH7

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH7
Sample Depth:
1.0 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		4.1 mg/kg	1.197	4.908 mg/kg	0.000491 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		26 mg/kg	1.32	34.328 mg/kg	0.00343 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		**<LOD**
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2 mg/kg	1.142	2.285 mg/kg	0.000228 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		65 mg/kg	1.126	73.183 mg/kg	0.00732 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	200 mg/kg		200 mg/kg	0.02 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.86 mg/kg	1.353	1.164 mg/kg	0.000116 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		6 mg/kg	1.5	9.001 mg/kg	0.0009 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		55 mg/kg	2.976	163.695 mg/kg	0.0164 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.4 mg/kg	2.554	3.575 mg/kg	0.000358 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		230 mg/kg	1.245	286.284 mg/kg	0.0286 %		
14	TPH (C6 to C40) petroleum group			TPH		90 mg/kg		90 mg/kg	0.009 %		

#		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		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
22		naphthalene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			201-581-5	85-01-8									
27		anthracene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			204-371-1	120-12-7									
28		fluoranthene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			205-912-4	206-44-0									
29		pyrene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				2	mg/kg		2	mg/kg	0.0002 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				3.4	mg/kg		3.4	mg/kg	0.00034 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0934 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.009%)

Classification of sample: BH9

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH9
Sample Depth:
1.0 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		9.3 mg/kg	1.197	11.133 mg/kg	0.00111 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.83 mg/kg	3.22	2.672 mg/kg	0.000267 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.84 mg/kg	1.142	0.96 mg/kg	0.000096 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		55 mg/kg	1.126	61.924 mg/kg	0.00619 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	280 mg/kg		280 mg/kg	0.028 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.83 mg/kg	1.353	1.123 mg/kg	0.000112 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.6 mg/kg	1.5	3.9 mg/kg	0.00039 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28 mg/kg	2.976	83.335 mg/kg	0.00833 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.76 mg/kg	2.554	1.941 mg/kg	0.000194 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		220 mg/kg	1.245	273.837 mg/kg	0.0274 %		
14	TPH (C6 to C40) petroleum group			TPH		22 mg/kg		22 mg/kg	0.0022 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
21		pH			PH		8.5	pH		8.5	pH	8.5 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		phenanthrene		201-581-5	85-01-8		1.5	mg/kg		1.5	mg/kg	0.00015 %		
27		anthracene		204-371-1	120-12-7		0.16	mg/kg		0.16	mg/kg	0.000016 %		
28		fluoranthene		205-912-4	206-44-0		1.9	mg/kg		1.9	mg/kg	0.00019 %		
29		pyrene		204-927-3	129-00-0		1.5	mg/kg		1.5	mg/kg	0.00015 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.76	mg/kg		0.76	mg/kg	0.000076 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		0.81	mg/kg		0.81	mg/kg	0.000081 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.2	mg/kg		1.2	mg/kg	0.00012 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.32	mg/kg		0.32	mg/kg	0.000032 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.73	mg/kg		0.73	mg/kg	0.000073 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		0.56	mg/kg		0.56	mg/kg	0.000056 %		
36		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
37		benzo[ghi]perylene		205-883-8	191-24-2		0.52	mg/kg		0.52	mg/kg	0.000052 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
											Total:	0.0804 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0022%)

Classification of sample: BH10

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH10
Sample Depth:
1.0 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<**LOD**
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21 mg/kg	1.32	27.727 mg/kg	0.00277 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.94 mg/kg	1.142	1.074 mg/kg	0.000107 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	23.385 mg/kg	0.00234 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<**LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32 mg/kg	1.126	36.028 mg/kg	0.0036 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	51 mg/kg		51 mg/kg	0.0051 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.26 mg/kg	1.353	0.352 mg/kg	0.0000352 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.4 mg/kg	1.5	3.6 mg/kg	0.00036 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.976	74.407 mg/kg	0.00744 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		0.74 mg/kg	2.554	1.89 mg/kg	0.000189 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		76 mg/kg	1.245	94.598 mg/kg	0.00946 %		
14	TPH (C6 to C40) petroleum group			TPH		13 mg/kg		13 mg/kg	0.0013 %		

#		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		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				9.5	pH		9.5	pH	9.5 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
27		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
29		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
30		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		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									
35		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0335 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0013%)

Classification of sample: BH11

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH11
Sample Depth:
1.0 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2	mg/kg	1.197	2.394	mg/kg	0.000239 %		
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		44	mg/kg	1.32	58.094	mg/kg	0.00581 %		
3		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.63	mg/kg	3.22	2.029	mg/kg	0.000203 %		
4		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %		
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27	mg/kg	1.462	39.462	mg/kg	0.00395 %		
6		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				<0.5	mg/kg	2.27	<1.135	mg/kg	<0.000113 %		<**LOD**
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		47	mg/kg	1.126	52.917	mg/kg	0.00529 %		
8		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	74	mg/kg		74	mg/kg	0.0074 %		
9		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.26	mg/kg	1.353	0.352	mg/kg	0.0000352 %		
10		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3	mg/kg	1.5	4.501	mg/kg	0.00045 %		
11		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		41	mg/kg	2.976	122.027	mg/kg	0.0122 %		
12		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2	mg/kg	2.554	3.065	mg/kg	0.000306 %		
13		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	136.919	mg/kg	0.0137 %		
14		TPH (C6 to C40) petroleum group			TPH		35	mg/kg		35	mg/kg	0.0035 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
21		pH			PH		8.4	pH		8.4	pH	8.4 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		phenanthrene		201-581-5	85-01-8		0.19	mg/kg		0.19	mg/kg	0.000019 %		
27		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		fluoranthene		205-912-4	206-44-0		0.4	mg/kg		0.4	mg/kg	0.00004 %		
29		pyrene		204-927-3	129-00-0		0.37	mg/kg		0.37	mg/kg	0.000037 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
31		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
35		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
36		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
37		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
											Total:	0.0537 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0035%)

Classification of sample: BH12

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH12
Sample Depth:
1.0 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.4 mg/kg	1.197	4.07 mg/kg	0.000407 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	1.3 mg/kg	3.22	4.186 mg/kg	0.000419 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.5 mg/kg	1.142	1.713 mg/kg	0.000171 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		**<LOD**
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29 mg/kg	1.126	32.651 mg/kg	0.00327 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	46 mg/kg		46 mg/kg	0.0046 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.2 mg/kg	1.353	0.271 mg/kg	0.0000271 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4.9 mg/kg	1.5	7.351 mg/kg	0.000735 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		40 mg/kg	2.976	119.051 mg/kg	0.0119 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1 mg/kg	2.554	2.809 mg/kg	0.000281 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		93 mg/kg	1.245	115.758 mg/kg	0.0116 %		
14	TPH (C6 to C40) petroleum group			TPH		20 mg/kg		20 mg/kg	0.002 %		

#		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		tert-butyl methyl 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									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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]									
20		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											
21		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
22		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
27		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
			205-912-4	206-44-0									
29		pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		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									
35		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
36		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									
37		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
38		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
39		polychlorobiphenyls; PCB				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0407 %		

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 Deteminand - 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 Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.002%)

Classification of sample: BH13

Non Hazardous Waste
Classified as **17 09 04**
in the List of Waste

Sample details

Sample name:
BH13
Sample Depth:
1.0 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.1 mg/kg	1.197	3.711 mg/kg	0.000371 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	26.407 mg/kg	0.00264 %		
3	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	11	0.69 mg/kg	3.22	2.222 mg/kg	0.000222 %		
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2 mg/kg	1.142	1.371 mg/kg	0.000137 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
6	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				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52 mg/kg	1.126	58.546 mg/kg	0.00585 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	150 mg/kg		150 mg/kg	0.015 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.82 mg/kg	1.353	1.11 mg/kg	0.000111 %		
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4.5 mg/kg	1.5	6.751 mg/kg	0.000675 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		44 mg/kg	2.976	130.956 mg/kg	0.0131 %		
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2 mg/kg	2.554	3.065 mg/kg	0.000306 %		
13	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110 mg/kg	1.245	136.919 mg/kg	0.0137 %		
14	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20		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				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<**LOD**
21		pH			PH		8	pH		8	pH	8pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		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**
37		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
39		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
											Total:	0.0563 %		

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 Deteminand - 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

Appendix A: Classifier defined and non EU CLP 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

EU CLP index number: 082-001-00-6
Description/Comments: Least-worst case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following CLP protocols, considers many simple lead compounds to be Carcinogenic category 2
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html. 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

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

EU CLP index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

EU CLP 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):
14 Dec 2015 - 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

- **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

EU CLP index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings (edit as required)

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 (edit as required)

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 (edit as required)

cadmium {cadmium oxide}

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

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

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

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

Laboratory analysis shows that Hexavalent Chromium is below detection, thus Lead Chromate is extremely unlikely to have formed.

mercury {mercury dichloride}

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

molybdenum {molybdenum(VI) oxide}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc oxide}

Laboratory analysis shows that Hexavalent Chromium is below detection, thus Zinc Chromate is extremely unlikely to have formed.

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] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.1.NI - Jan 2021
HazWasteOnline Classification Engine Version: 2024.80.5988.11077 (20 Mar 2024)
HazWasteOnline Database: 2024.80.5988.11077 (20 Mar 2024)

This classification utilises the following guidance and legislation:
WM3 v1.1.NI - Waste Classification - 1st Edition v1.1.NI - Jan 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
17th ATP - Regulation (EU) 2021/849 of 11 March 2021
18th ATP - Regulation (EU) 2022/692 of 16 February 2022
19th ATP - Regulation (EU) 2023/1434 of 25 April 2023
20th ATP - Regulation (EU) 2023/1435 of 2 May 2023