SUPPLEMENTARY CONTAMINATED LAND ASSESSMENT
WITHINGTON CDC
MANCHESTER
BAM CONSTRUCTION LTD
CLA-22705-24-176
JUNE 2024

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Prepared by		Approved by	
Katherine Johnson	BSc (hons.) CSci FGS MIEnvSc	Amy Jones	BSc (hons.) FGS

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EXECUTIVE SUMMARY

BAM Construction Ltd (BAM) is acting as Principal Contractor for the redevelopment of land adjacent to Withington Community Hospital, Nell Lane, West Didsbury, Manchester, M20 2LR. The proposed development comprises an endoscopy and cardiorespiratory unit to be linked up to the existing main hospital.

Intrusive investigation and limited sampling of the site has previously been undertaken by others. IDOM Merebrook Limited has been commissioned by BAM to undertake supplementary site investigation works to provide broader spatial coverage of the site and an expanded soil chemical analysis dataset to inform an updated risk assessment and to assist with classifying material for the purpose of off-site disposal.

SITE DETAILS	
Approximate site area	0.56 ha
Current use / historic use	Previously occupied by government buildings and an electrical substation
Proposed use	Extension to main hospital.

PHASE 1 NON-INTRUSIVE INVESTIGATION	
Expected geology	Site indicated to be underlain by superficial deposits of glaciofluvial sand and gravel with Wilmslow Sandstone Formation (bedrock) beneath.
Groundwater	Superficial deposits classified as Secondary A Aquifer. Bedrock classified as a Principal Aquifer. Site does not lie within a groundwater Source Protection Zone and there are no active groundwater abstraction licences within 1 km.
Surface water	There are no surface water features within 250 m of the site and there are no surface water abstractions within 1 km of the site.
Other	Invasive species (wall cotoneaster and rhododendron) identified on site.

PHASE 2 EXPLORATORY INVESTIGATION	
Ground Conditions	Variable thickness of made ground encountered across the site (maximum thickness of greater than 3 m). Sand deposits encountered beneath made ground with stiff clay present below 6 m. Resting water levels of circa 3.8 – 4.1 m within sand deposits (above stiff clay stratum). Elevated concentrations of carbon dioxide recorded but no associated flow.
Contamination	Asbestos fibres within made ground in southwest of site. Elevated concentrations of PAH in a number of locations. Potential risk to future users in areas of soft landscaping and potential risk of hazardous gas ingress.

RECOMMENDATIONS	
Remediation	Remedial works required to remove potential exposure pathway in areas of soft landscaping and to protect new structures against hazardous gas ingress.
Waste classification	Made ground has been characterised as non-hazardous for the purpose of waste classification and is considered to be suitable for disposal at a non-hazardous landfill. Should visible ACMs be identified during groundworks, further assessment will be required.
Re-use of site-won materials	Re-use of made ground under a Materials Management Plan may be acceptable provided the relevant criteria are met.

SECTION 1 INTRODUCTION

1.1 BAM Construction Ltd (BAM) is acting as Principal Contractor for the redevelopment of land adjacent to Withington Community Hospital, Nell Lane, West Didsbury, Manchester, M20 2LR. The proposed development comprises an endoscopy and cardiorespiratory unit to be linked up to the existing hospital building adjacent to the site.

1.2 Previous intrusive and non-intrusive investigations have been undertaken by Groundtech Consulting Limited (Groundtech) as follows:

i. Preliminary Risk Assessment (PRA) reference GRO-23019-4177 dated 16 February 2023; and,

ii. Geo-environmental Appraisal reference GRO-23019-4716 dated 5 September 2023.

1.3 IDOM Merebrook Limited (IDOM) has been commissioned by BAM Construction Ltd to undertake supplementary site investigation works to provide broader spatial coverage of the site and an expanded soil chemical analysis dataset to inform an updated risk assessment and to assist with classifying material for the purpose of off-site disposal.

1.4 The objectives of the investigation are to:

i. Assess surface and sub-surface ground conditions present at the site;

ii. Undertake additional analysis for the purpose of verifying the assessed level of risk to future users and to assist with waste classification;

iii. Provide an updated assessment of any significant risks identified; and,

iv. Undertake a waste classification assessment.

1.5 A Phase 2b (Supplementary Exploratory Investigation) has been undertaken for the subject site.

1.6 This report presents the findings of the supplementary contaminated land investigation and provides an interpretation of the geo-environmental conditions that exist at the site. The contaminative status of the site and the implications with respect to development have been interpreted in accordance with the current government guidance on source-pathway-receptor risk assessment. This report uses a Tier 1 risk assessment to ascribe a conservative qualitative appraisal of the hazards associated with the site.

1.7 This report has been prepared for BAM Construction Ltd for the sole purpose described above and no extended duty of care to any third party is implied or offered. Third parties making reference to the report should consult BAM Construction Ltd and IDOM as to the extent to which the findings may be appropriate for their use.

SECTION 2 SUMMARY OF PHASE 1 (NON-INTRUSIVE) INVESTIGATION

2.1 INTRODUCTION

2.1.1 The site is irregular in shape and covers an area of approximately 0.56 hectares centred at approximate National Grid Reference ^{3}83734, ^{3}92010 and indicated on drawing 22705-001-001, presented in Appendix 1 of this report. The topography gently slopes upwards towards the centre of the site and has likely been created as a result of previous buildings on site being demolished.

2.2 The pertinent information from the previous Groundtech PRA is summarised in the following sections. Reliance on the Groundtech report has not been explicitly granted to IDOM and the information contained therein has thus been treated in good faith.

2.1 SITE HISTORY

2.1.1 The site was vacant until 1955 when government buildings dominated the site. An electrical substation was present on the site in the west in 1987. The buildings and substation were no longer shown by 2003 and the site has remained vacant since.

2.2 GEOLOGY

2.2.1 The presence of made ground is not indicated on any of the available geological plans, however, due to the demolition of previous buildings the on-site, made ground is to be anticipated.

2.2.2 The site is indicated to be underlain by superficial deposits of glaciofluvial sand and gravel, with lenses of silt, clay or organic material locally.

2.2.3 The bedrock beneath the site is the Wilmslow Sandstone Formation comprising red, fine to medium grained, cross-bedded sandstones.

2.2.4 There are no geological faults on, or within influencing distance of, the site.

2.3 HYDROGEOLOGY

2.3.1 The superficial glaciofluvial sand and gravel deposits are classified as a Secondary A Aquifer and the Wilmslow Sandstone Formation is classified as a Principal Aquifer.

2.3.2 The site does not lie within 500 m of a groundwater Source Protection Zone.

2.3.3 There are no active groundwater abstraction licences within 1 km of the site and no potable abstractions within 2 km.

2.4 HYDROLOGY

2.4.1 There are no surface water features within 250 m of the site and there are no surface water abstractions within 1 km of the site.

2.5 PREVIOUS INVESTIGATIONS

2.5.1 A previous intrusive investigation was undertaken by Groundtech Consulting between 9 and 10 May 2023 as reported in Geo Environmental Appraisal reference GRO-23019-4716 dated 5 September 2023.

2.5.2 The following exploratory locations were completed:

i. 5 No. Trial Pits to a maximum depth of 3.2 m bgl.

ii. 2 No. Cable Percussive boreholes to a maximum depth of 14.5 m bgl.

iii. 2 No. Plate Load Tests to determine CBR values.

2.5.3 Made ground was encountered to depths of between 1.3 m and 3.0 m bgl across the site. No visual or olfactory evidence of contamination was noted during the ground investigation.

2.5.4 An obstruction in the form of a concrete slab was encountered in TP04 at 0.8 m in the east side of the pit so the pit was relocated to the west to avoid the obstruction and the trial pit was continued. Another concrete slab was also encountered in TP05 at 1.6 m terminating the trial pit.

2.5.5 A number of made ground samples were submitted to an MCERTS/UKAS-accredited laboratory for analysis of heavy metals, polychlorinated biphenyls (PCB), polycyclic aromatic hydrocarbons (PAH) and asbestos fibres. Where asbestos screens were positive, quantification of fibres was reportedly undertaken, however, IDOM have not been provided with the results of the quantification analysis. Six samples were also submitted for Waste Acceptance Criteria (WAC) testing.

2.5.6 The two boreholes were installed with monitoring standpipes. With reference to the exploratory hole records, the response zones span the made ground and drift between 1 and 5/6 m bgl. Gas monitoring was subsequently undertaken on four occasions between 25 July and 30 August 2023.

2.5.7 The upper profile of made ground comprised brown, slightly clayey, slightly gravelly, fine to coarse sand to a maximum depth of 0.30 m bgl. The remainder of the made ground generally consisted of brown and yellow brown, clayey gravelly sand to depths of up to 2.6 m bgl. Soft, grey, slightly sandy, slightly gravelly clay was encountered in TP04 from 1.5 m to a maximum depth of 1.7 m bgl.

2.5.8 Natural ground was encountered as medium dense to dense, light grey-brown, gravelly, fine to coarse sand in CP01, CP02 and TP04 from 2.0 m bgl to a maximum depth of 7.4 m bgl. Orange grey, gravelly, fine to coarse sand was encountered in TP03 from 1.6 m to a maximum depth of 2.7 m bgl where the pit was terminated.

2.5.9 Firm to stiff, brown, sandy gravelly clay was encountered in CP01 and CP02 from 6.1 m to the base of the boreholes at a maximum of 14.92 m bgl.

2.5.10 A groundwater strike was observed in CP01 only at 6.00 m bgl. Resting water levels during subsequent monitoring visits were found to be between 3.82 m and 4.10 m bgl.

2.5.11 Testing performed on the made ground beneath the site indicated no elevated levels of metals, PAHs or PCBs, however, asbestos was detected in three out of the six samples tested. As areas of soft landscaping are proposed, a clean cover system was recommended in these areas comprising 600 mm of clean soil including a minimum of 150 mm topsoil.

2.5.12 The soils beneath the site were classified as non-hazardous for waste disposal purposes (pending results of asbestos quantification).

2.5.13 Gas monitoring visits classify the site as Characteristic Situation (CS) 2 due to the elevated gas screening values (GSV) calculated for carbon dioxide CO_2. No positive gas flow rates were recorded during the monitoring period. Groundtech concluded a 'low' risk associated with vapours but a 'moderate' risk with respect to hazardous ground gases (due to the elevated levels of CO_2). As a result, basic gas protection measures were recommended in new structures.

2.5.14 The risk to controlled waters was assessed as 'low'.

SECTION 3 SITE INVESTIGATION RATIONALE

3.1 INTRODUCTION

3.1.1 Following a review of the previous investigation report and limited chemical analysis dataset, IDOM recommended additional sampling to provide greater confidence in the assessed level of risk to future site users and to allow a more comprehensive classification of the potential waste streams on site.

3.1.2 Intrusive sampling locations were chosen to provide increased spatial coverage of the site and to collect additional samples for risk assessment and waste classification purposes.

3.2 SITE INVESTIGATION METHODS

3.2.1 An intrusive investigation was carried out by IDOM on 15 May 2024 comprising nine machine-dug trial holes (MTP01 to MTP09) to a maximum depth of 2.5 m bgl.

3.2.2 Exploratory hole locations are indicated on drawing 22705-304-001 in Appendix 1. Logging of exploratory holes was undertaken by an IDOM Officer. Exploratory hole logs are contained in Appendix 2.

3.2.3 Representative soil samples were taken from various depths and strata to assess the contaminative status of the site. Soil samples were submitted to an MCERTS/ UKAS accredited laboratory for chemical analysis of a broad suite of potential contaminants. The results are provided in Appendix 3.

SECTION 4 GROUND CONDITIONS

4.1 SURFACE GROUND CONDITIONS

4.1.1 Vegetation clearance had taken place prior to IDOM's attendance. However, access to certain areas of the site was precluded due to the presence of invasive species.

4.2 SUB-SURFACE GROUND CONDITIONS

4.2.1 A summary of the ground conditions encountered is presented in Table 1, whilst a more detailed assessment of the strata is contained in the following sections of the report.

Table 1: Summary of Sub-surface Ground Conditions

Strata	Depth to Top of Range (m bgl)	Thickness Range (m)
Made Ground	0.0	0.65 – 2.00
Drift	0.65 – 2.00	Base not proven
Solid	Not encountered	Not encountered

4.2.2 Made Ground

4.2.2.1 During the IDOM investigation, made ground was found to be variable in thickness across the site (up to 2.0 m deep) and was described as brown sandy silty clay topsoil with rootlets (approximately 5 cm thick) over brownish grey, slightly sandy gravel with concrete and brick. Occasional wood, glass, ceramic and tarmac fragments were observed in MTP03, MTP04 and MTP05.

4.2.2.2 A soft, dark grey silt horizon was encountered in MTP07 between 1.10 and 1.70 m bgl.

4.2.2.3 The Groundtech investigation described the made ground as clayey gravelly sand with gravel of predominantly brick, cement and concrete but occasionally ceramic, wood, metal, tarmac and plastic. The depth of made ground encountered during the Groundtech investigation was in excess of 3.0 m in one location (base not proven).

4.2.2.4 No visual or olfactory evidence of contamination was observed during either ground investigation.

4.2.2.5 Metal sheeting was encountered at 0.3 and 1.1 m bgl in MTP03. Concrete structures were encountered in MTP04 at 0.2 and MTP05 at 1.2 m bgl. A brick structure was also revealed in MTP05 at 1.5 m. Metal and ceramic pipes were uncovered in MTP06 at 0.8 m and 0.9 m bgl respectively. In the Groundtech investigation, concrete was encountered at 1.3-1.4 m bgl in TP04 and TP05 was terminated at 1.6 m bgl due to the presence of a concrete slab.

4.2.2.6 No perched water was encountered within the made ground horizon.

4.2.3 Natural Ground

4.2.3.1 Beneath the made ground, orangish and yellowish brown sand with occasional grey clay lenses was recorded.

4.2.3.2 The Groundtech boreholes revealed stiff, sandy, gravelly clay beneath the sand from 6.1 and 7.4 m bgl in CP01 and CP02 respectively.

4.2.3.3 A groundwater strike was reportedly observed during drilling of CP01 at 6.00 m bgl (immediately above the stiff clay horizon). Subsequent monitoring in both boreholes revealed resting water levels between 3.82 m and 4.10 m bgl.

SECTION 5 ENVIRONMENTAL ASSESSMENT

5.1 SOIL QUALITY

5.1.1 A total of 14 soil samples were submitted to the laboratory for chemical analysis, including 2 samples from natural ground and 12 samples from made ground. The laboratory chemical analysis certificates are contained in Appendix 3. The results of the analysis are summarised in Table 2.

5.1.2 An initial screening exercise has been undertaken whereby contaminant concentrations recorded in soils have been assessed against *Suitable for Use Levels* (S4ULs) published in 2015 by LQM/CIEH[1]. These precautionary screening levels are designed to be representative of minimal risk to human health in a number of land use scenarios. In this report, results have been compared against S4ULs for three different land use scenarios including; residential use where the possibility of consumption of homegrown produce does not exist, public open space within a residential setting (POS resi) and commercial use. In all cases, the screening levels assume a soil organic matter of 2.5 % (which is the mean value recorded by the recent analysis). For lead the DEFRA Category 4 Screening Levels[2] have been used as these are based on updated toxicological data and a low risk to human health.

5.1.3 An additional set of phytotoxin screening levels have been adopted from 'The Code of Agricultural Practice for the Protection of Soil' Ministry of Agriculture, Fisheries and Food (MAFF), 1993, which are protective of healthy plant growth.

[1] Nathanail, C. P., McCaffrey, C., Gillett, A. G., Ogden, R. C. and Nathanail, J. F. 2015. *The LQM/CIEH S4ULs for Human Health Risk Assessment*. Land Quality Press, Nottingham. Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3100. All rights reserved. Including August 2015 nickel update.

[2] SP1010 *Development of Category 4 Screening Levels Main Report* (Dec 2013) and SP1010 *Policy Companion Document* (Mar 2014).

Table 2: Summary of Soils Chemical Analysis Results

Contaminant	No. Tests	Max (mg.kg^{-1})	Mean (mg.kg^{-1})	Residential without plant uptake		POS resi		Commercial	
				Screening Level (SL) (mg.kg^{-1})	No >SL*	SL (mg.kg^{-1})	No >SL*	SL (mg.kg^{-1})	No >SL*
HUMAN HEALTH RISK ASSESSMENT									
Asbestos in soil	11	-	-	Detected	**2**	Detected	**2**	Detected	**2**
pH	14	9.4	8.5	5 – 9	**1**	5 – 9	**1**	5 – 9	**1**
Arsenic	14	21.0	12.0	40	0	79	0	640	0
Barium	14	1000.0	237.9	1300	0	1300	0	22000	0
Cadmium	14	1.2	0.4	85	0	120	0	190	0
Chromium (III)	14	20.0	12.2	910	0	1500	0	8600	0
Hexavalent Chromium	14	1.8	1.8	6	0	7.7	0	33	0
Lead	14	120.0	61.2	310	0	630	0	2300	0
Mercury	14	0.5	0.3	56	0	120	0	1100	0
Nickel	14	16.0	11.2	180	0	230	0	980	0
Selenium	14	1.2	1.0	430	0	1100	0	12000	0
Vanadium	14	27.0	19.3	1200	0	2000	0	9000	0
TPH Aliphatic >EC_5 - EC_6	14	0.020	0.020	78	0	590000	0	5900	0
TPH Aliphatic >EC_6 - EC_8	14	0.020	0.020	230	0	610000	0	17000	0
TPH Aliphatic >EC_8 - EC_{10}	14	0.050	0.050	65	0	13000	0	4800	0
TPH Aliphatic >EC_{10} - EC_{12}	14	1.30	1.02	330	0	13000	0	23000	0
TPH Aliphatic >EC_{12} - EC_{16}	14	4.50	2.53	2400	0	13000	0	82000	0
TPH Aliphatic >EC_{16} - EC_{21}	14	13.00	8.89	92000	0	250000	0	1700000	0
TPH Aliphatic >EC_{21} - EC_{35}	14	85.00	35.86	92000	0	250000	0	1700000	0
TPH Aromatic >EC_5 - EC_7	14	0.010	0.010	690	0	56000	0	46000	0
TPH Aromatic >EC_7 - EC_8	14	0.010	0.010	1800	0	56000	0	110000	0
TPH Aromatic >EC_8 - EC_{10}	14	0.050	0.050	110	0	5000	0	8100	0
TPH Aromatic >EC_{10} - EC_{12}	14	4.50	1.26	590	0	5000	0	28000	0
TPH Aromatic >EC_{12} - EC_{16}	14	69.00	9.18	2300	0	5100	0	37000	0
TPH Aromatic >EC_{16} - EC_{21}	14	340.00	51.36	1900	0	3800	0	28000	0
TPH Aromatic >EC_{21} - EC_{35}	14	380.00	101.07	1900	0	3800	0	28000	0
Benzene	14	0.005	0.005	0.7	0	72	0	47	0
Toluene	14	0.005	0.005	1900	0	56000	0	110000	0
Ethylbenzene	14	0.005	0.005	190	0	24000	0	13000	0
Xylene	14	0.010	0.010	180	0	42000	0	14000	0
Naphthalene	14	7.50	0.73	5.6	**1**	4900	0	460	0
Acenaphthylene	14	0.89	0.11	4600	0	15000	0	97000	0

Contaminant	No. Tests	Max (mg.kg^{-1})	Mean (mg.kg^{-1})	Residential without plant uptake		POS resi		Commercial	
				Screening Level (SL) (mg.kg^{-1})	No >SL*	SL (mg.kg^{-1})	No >SL*	SL (mg.kg^{-1})	No >SL*
Acenaphthene	14	23.00	2.13	4700	0	15000	0	97000	0
Fluorene	14	24.00	2.14	3800	0	9900	0	68000	0
Phenanthrene	14	150.00	14.15	1500	0	3100	0	22000	0
Anthracene	14	43.00	4.07	35000	0	74000	0	540000	0
Fluoranthene	14	140.00	15.42	1600	0	3100	0	23000	0
Pyrene	14	120.00	13.50	3800	0	7400	0	54000	0
Benzo(a)anthracene	14	48.00	5.75	14	**1**	29	**1**	170	0
Chrysene	14	47.00	5.66	31	**1**	57	0	350	0
Benzo(b)fluoranthene	14	49.00	6.34	4	**4**	7.2	**3**	44	**1**
Benzo(k)fluoranthene	14	18.00	2.58	110	0	190	0	1200	0
Benzo(a)pyrene	14	43.00	5.96	3.2	**4**	5.7	**4**	35	**1**
Indeno(1,2,3-c,d)pyrene	14	24.00	3.30	46	0	82	0	510	0
Dibenzo(a,h)anthracene	14	4.60	0.73	0.32	**7**	0.57	**5**	3.6	**1**
Benzo(g,h,i)perylene	14	26.00	3.65	360	0	640	0	4000	0
Phenol	14	1.0	1.0	690	0	690	0	690	0
PHYTOTOXICITY RISK ASSESSMENT									
Copper	14	45.0	23.1	200	0	200	0	200	0
Nickel	14	16.0	11.2	110	0	110	0	110	0
Zinc	14	120.0	75.5	300	0	300	0	300	0

Notes: * Number of samples exceeding screening level nd = not detected

5.1.4 Zootoxic Metals (harmful to human health)

5.1.4.1 No concentrations of heavy metals were recorded in excess of the screening criteria.

5.1.5 Phytotoxic Metals (harmful to plant health)

5.1.5.1 No exceedances of the phytotoxic screening criteria were recorded.

5.1.6 Organic Contaminants

5.1.6.1 No concentrations of TPH or BTEX were recorded in excess of the screening criteria. With reference to the laboratory chemical analysis certificate enclosed in Appendix 3, results for the aromatic TPH fraction in the C7 – C8 carbon range in the majority of samples experienced a quality control parameter failure. The samples should therefore be considered deviating and the results may be compromised. However, work was undertaken by the TPHCWG which identified a number of carbon band ranges to which it assigned properties related to their environmental fate. This indicates that aromatic hydrocarbons in the C_7-C_8 carbon range are equivalent to Toluene. As the same samples have also been subjected to BTEX analysis (and did not reveal concentrations above the laboratory limit of detection) this provides confidence that, despite the quality control failure, concentrations are not likely to be elevated.

5.1.6.2 A number of different PAH species exceeded the residential based screening criteria. The highest concentrations of all species were recorded in the sample from MTP07 at 1.5 m bgl and concentrations for three of the species in this sample exceeded the least stringent screening criteria for commercial use. This material was described as soft, dark grey silt and was not observed in any of the other exploratory locations. Concentrations were also elevated (and exceeded the more stringent screening criteria) in MTP01 MTP02, MTP03, MTP06 and a shallower sample in MTP07 at 1.0 m bgl. No visual or olfactory evidence of contamination was noted in any of the samples, other than occasional fragments of tarmac in MTP03.

5.1.7 Inorganic Contaminants

5.1.7.1 Chrysotile asbestos fibres were identified two of the eleven samples tested in MTP07 (1.0 m bgl) and MTP09 (1.0 m bgl). There were recorded as loose fibres (0.002 % by weight) and loose fibrous debris (0.008 % by weight) in MTP07 and MTP09 respectively. No evidence of asbestos-containing materials was recorded on the exploratory hole records.

5.1.7.2 pH was also found to be elevated in one of the samples at 9.4, however, concrete fragments were commonly observed within made ground and can give rise to high pH values where incorporated in a sample.

5.1.8 Summary

5.1.8.1 Made ground contains elevated concentrations of several PAH species as well as asbestos fibres. The samples containing asbestos fibres were from exploratory locations in the southwest of the site. No visible asbestos-containing materials (ACMs) have been identified.

5.1.8.2 The two samples of natural ground analysed did not reveal any elevated levels of contamination.

5.2 WASTE CLASSIFICATION, OFF-SITE DISPOSAL OR RE-USE

5.2.1 Waste Considerations

5.2.1.1 Fourteen samples of made ground taken during the IDOM investigation were classified in accordance with WM3 guidance. A copy of the classification report is included in Appendix 4. The results show that all material would be classed non-hazardous for disposal purposes. However, TPH concentrations in MTP07 from 1.5 m bgl (within the material described as soft, dark grey clay) were significantly elevated and may be indicative of more significant contamination. The hydrocarbons are predominantly in the C_{16}-C_{21} and C_{21}-C_{35} aromatic fraction.

5.2.1.2 Three samples of made ground (MTP01 at 0.6 m bgl, MTP03 at 1.0 m bgl and MTP07 at 1.0 m bgl) were submitted to the laboratory for Waste Acceptance Criteria (WAC) testing. One sample achieved the criteria for disposal at an inert landfill but the remaining two samples failed the inert criteria. In addition to this, as asbestos fibres have been detected in made ground (albeit below the hazardous threshold of 0.1 %), it is unlikely that the material

would be accepted at an inert landfill. Consequently, is recommended that any made ground material requiring off-site disposal is sent to a non-hazardous landfill.

5.2.1.3 WAC analysis was also performed on six samples as part of the Groundtech investigation. All but one of the samples achieved the criteria for disposal at an inert landfill. However, as asbestos fibres were detected in three samples of made ground the material would not be accepted at an inert landfill.

5.2.1.4 No visible fragments of ACM were observed during either investigation. However, should visible asbestos fragments be discovered during groundworks, further assessment would be required (see Asbestos Management Plan produced by IDOM under separate cover for further details).

5.2.1.5 Natural as-dug arisings (excluding topsoil) could be classed as inert waste without the requirement for WAC testing.

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

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

5.2.2 Re-use Considerations

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

i. Use of the material will not create an unacceptable risk of pollution to the environment or harm to human health;

ii. The material must be chemically and geotechnically suitable without further treatment;

iii. There must be certainty of use within the scheme;

iv. Material should only be used in the quantity necessary for that use.

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

5.2.2.3 During the course of excavation and re-use of "*uncontaminated soil and other naturally occurring material*", an exclusion to waste legislation can apply under the Waste Framework Directive. To qualify for the exclusion, soils must be:

i. Uncontaminated;

ii. Excavated during the construction activities; and

iii. Certain to be used in its natural state for construction purposes on the same site.

5.2.2.4 Under this exclusion, the definition of uncontaminated soil and other naturally occurring material is as follows:

virgin soil or soil that is equivalent to virgin soil. Other naturally occurring material means soil, stones, gravel, rock, etc.

SECTION 6 CONCLUSIONS

6.1 An initial site investigation was undertaken by Groundtech in May 2023. IDOM has been commissioned by BAM Construction Limited to undertake a supplementary investigation to provide broader spatial coverage of the site and an expanded soil chemical analysis dataset to inform an updated risk assessment and assist with classifying material for the purpose of off-site disposal.

6.2 Intrusive investigation of the site has revealed a variable thickness of made ground across the entire ranging from 0.65 to greater than 3.0 m. Beneath the made ground, glaciofluvial deposits are present above stiff clay.

6.3 Both the Groundtech and IDOM investigations have revealed asbestos fibres within made ground. Elevated concentrations of PAH have also been identified by the additional sampling undertaken by IDOM. As a result, a potential risk to future users is considered to exist in areas of soft landscaping.

6.4 Groundtech concluded that the gas risk associated with the site would be classified as CS2 and that gas protection measures would be required in new structures due to elevated concentrations of CO_2. The source of the gas appears to be associated with the made ground horizon. Based on the existing information, IDOM would concur with the classification of CS2. However, if preparation of the site for redevelopment will result in the substantial removal of made ground from the area, it would be appropriate to undertake additional monitoring and revisit the risk assessment.

6.5 The identified risks at the site can be mitigated by removal of either the source, pathway or receptor. A Remediation Method Statement (RMS) has been prepared under separate cover detailing measures to render the site suitable for the proposed development (IDOM report reference RMS-22705-24-175).

6.6 The made ground has been categorised as non-hazardous and is considered to be suitable for disposal at a non-hazardous landfill. Notwithstanding this, material encountered in MTP07 between 1.1 and 1.6 m bgl, described as soft, dark grey silt, was found to contain significantly

elevated concentrations of PAH. TPH concentrations in the sample were also approaching the hazardous threshold and may be indicative of higher levels of contamination within this stratum. It is therefore recommended that this material is delineated and handled separately to the rest of the made ground with additional samples submitted for analysis prior to disposal.

6.7 Although no discrete fragments of asbestos have been identified, as the site was previously occupied by buildings which have since been demolished and given that asbestos fibres have been detected within made ground, the potential for discovery of visible ACMs during groundworks exists. An Asbestos Management Plan (AMP) will be produced under separate cover to outline safe working practices.

6.8 It is recommended that this report, together this the accompanying RMS is submitted to the Local Authority for approval.

APPENDIX 1 ▪ Drawings

Legend

Site Location

First Issue	04/04/2024	SA	-
	KRJ	KRJ	
Issue Details	Dwn	Chd	App'd

Issue Purpose

Final

Client

BAM Construction Ltd

Project

Withington Hospital Extension

Dwg Title

Site Location Plan

Drawing No.

22705-001-001

Scale	Date	Frame dimension mm
1:20,000	04/06/2024	(A3) 392 x 277

Drawn	Checked	Approved
SA	KRJ	KRJ

IDOM

Cromford Mills, Mill Lane, Matlock, Derbyshire DE4 3RQ
t: +44(0)1773 829 988 e: info.derbyshire@idom.com

0 250 500 m

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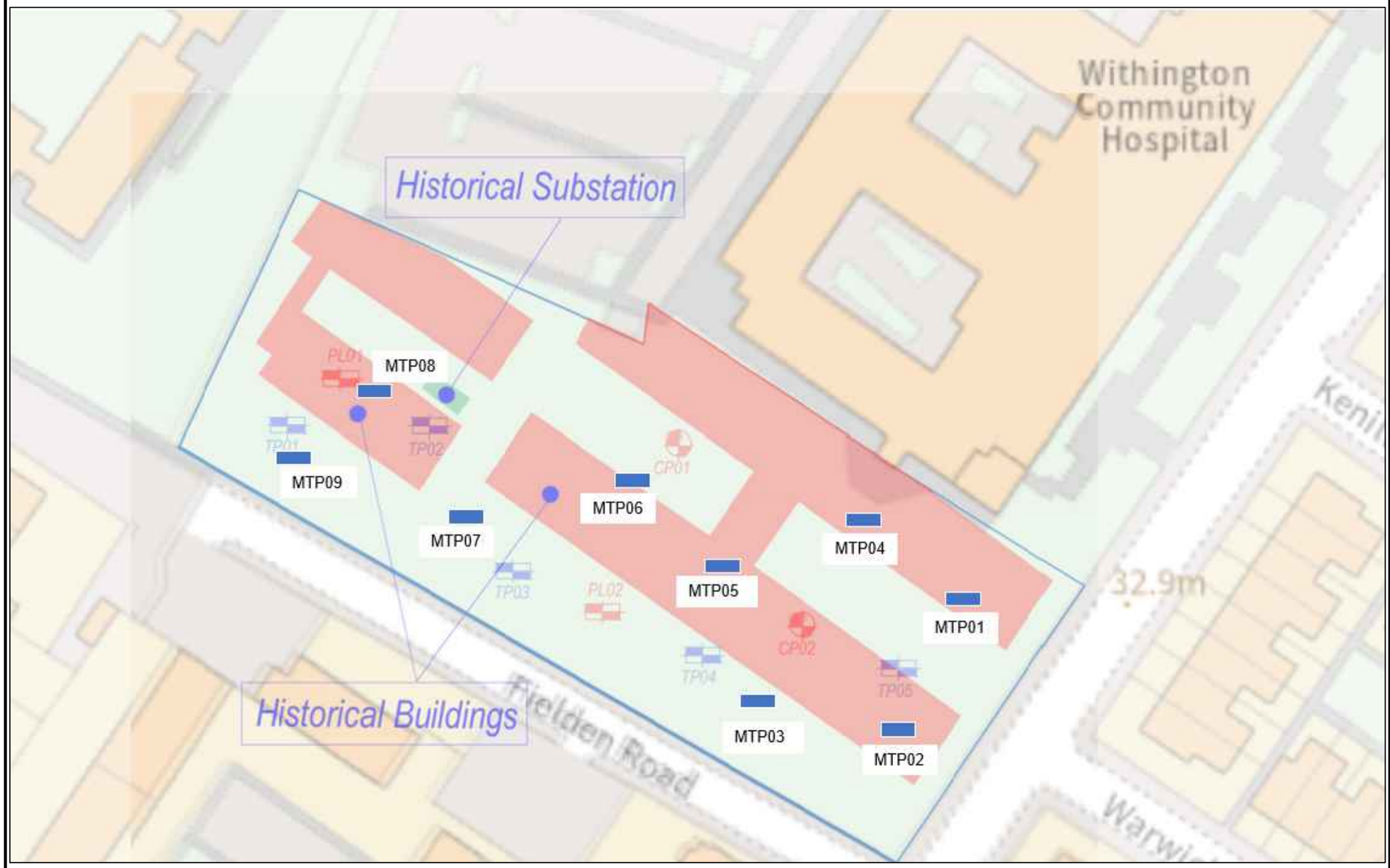

LEGEND

- CPref — GROUNDTECH MAY 23 BOREHOLE
- PLref — GROUNDTECH MAY 23 PLATE LOAD TEST
- TPref — GROUNDTECH MAY 23 TRIAL PIT
- MTPref — IDOM MAY 24 TRIAL PIT

DESCRIPTION	DATE	DWN	CHD	APP'D	REV
FIRST ISSUE	30/05/2024	JB	KJ	KJ	-

ISSUE PURPOSE: PRELIMINARY

CLIENT: BAM CONSTRUCTION LTD

PROJECT: WITHINGTON HOSPITAL EXTENSION

DWG TITLE: EXPLORATORY HOLE LOCATIONS

DWG NO.: 22705-304-001

SCALE	DATE	FRAME DIMS (mm)
N.T.S	MAY 2024	(A3) 420 x 297

DRAWN	CHECKED	APPROVED
JB	KJ	KJ

IDOM
Registered Office: Cromford Mills, Mill Lane, Matlock, Derbyshire, DE4 3RQ
Website: www.merebrook.co.uk **t**: +44(0)1773 829 988 **e**: info.derbyshire@idom.com

O:\Jobs 22500-22999\22705 Withington Hospital Extension\4.0 Project Documents\4.1 Drawings\4.1.1 Merebrook\22705-304-001 Exploratory Hole Locations.dwg

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APPENDIX 2 ▪ Exploratory hole records

TRIAL PIT LOG

TrialPit No: MTP01
Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383781.00 - 391997.00 Level:	Date 15/05/2024
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 1.40	Scale 1:25
Equipment:	13 Tonne Tracked 360 Excavator			Logged SOJ / Checked LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular to subrounded flint, concrete and brick fragments. Occasional cobbles of brick and concrete.
	0.50	D,J,V					
	0.60	D,J,V		0.55			
				0.65			MADE GROUND: Dark grey slightly sandy gravel. Gravel is medium to coarse angular to subrounded flint, concrete and brick fragments. Sand is medium. Orangish brown SAND. Sand is fine subrounded. Occasional grey clay lenses present.
				1.40			End of Pit at 1.400m

1
2
3
4
5

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability
Pit sides unstable

Remarks
Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

TRIAL PIT LOG

TrialPit No: MTP02

Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383771.00 - 391984.00 Level:
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 2.30
Equipment:	13 Tonne Tracked 360 Excavator		

Date: 15/05/2024

Scale: 1:25

Logged: SOJ

Checked: LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular to subrounded flint, concrete and brick fragments. Occasional cobbles of brick and concrete.
	1.00	D,J,V					
				1.40			MADE GROUND: Dark grey slightly sandy gravel. Gravel is medium to coarse angular subrounded flint, concrete and brick fragments. Sand is medium.
	1.50	D,J,V		1.60			Yellowish brown SAND. Sand is fine subrounded. Occasional grey clay lenses present.
				2.30			End of Pit at 2.300m

1 2 3 4 5

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability

Pit sides unstable

Remarks

Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

TRIAL PIT LOG

TrialPit No: MTP03

Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383750.00 - 391986.00 Level:	Date 15/05/2024
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 1.60	Scale 1:25
Equipment:	13 Tonne Tracked 360 Excavator			Logged SOJ / Checked LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular subrounded of flint, concrete and brick fragments. Occasional wood fragments, tarmac fragments and cobbles of brick and concrete. *Metal sheeting*
	1.00	D,J,V					
				1.10			Yellowish brown SAND. Sand is fine subrounded. Occasional grey clay lenses present. *Metal sheeting*
				1.60			End of Pit at 1.600m

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability
Pit sides unstable

Remarks
Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

TRIAL PIT LOG

TrialPit No: MTP04
Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383759.00 - 392005.00 Level:
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 1.50
Equipment:	13 Tonne Tracked 360 Excavator		

Date: 15/05/2024
Scale: 1:25
Logged: SOJ
Checked: LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular to subrounded flint, concrete and brick fragments. Occasional glass fragments, tarmac fragments and cobbles of brick and concrete. *Concrete structure encountered*
	1.00	D,J,V					
				1.50			End of Pit at 1.500m

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability
Pit sides unstable

Remarks
Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

TRIAL PIT LOG

TrialPit No: MTP05
Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383742.00 - 392005.00 Level:
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 2.50
Equipment:	13 Tonne Tracked 360 Excavator		

Date: 15/05/2024
Scale: 1:25
Logged: SOJ
Checked: LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular to subrounded flint, concrete and brick fragments. Occasional ceramic fragments, tarmac fragments and cobbles of brick and concrete.
							Concrete structure encountered
	1.50	D,J,V					*Brick foundation encountered*
				2.00			Yellowish brown SAND. Sand is fine subrounded. Occasional grey clay lenses present.
	2.50	D,J,V		2.50			End of Pit at 2.500m

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability
Pit sides unstable

Remarks
Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

TRIAL PIT LOG

TrialPit No: MTP06
Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383730.00 - 392006.00 Level:
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 2.20
Equipment:	13 Tonne Tracked 360 Excavator		

Date: 15/05/2024
Scale: 1:25
Logged: SOJ
Checked: LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular to subrounded of flint, concrete and brick fragments. Occasional cobbles of brick and concrete.
							Metal pipe
							Ceramic pipe
	1.00	D,J,V					
				1.80			MADE GROUND: Dark grey slightly sandy gravel. Gravel is medium to coarse angular to subrounded flint, concrete and brick fragments. Sand is medium.
				1.90			Brown SAND. Sand is fine subrounded. Occasional grey clay lenses present.
				2.20			End of Pit at 2.200m

1
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3
4
5

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability
Pit sides unstable

Remarks
Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

TRIAL PIT LOG

TrialPit No: MTP07
Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383708.00 - 392014.00 Level:
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 1.80
Equipment:	13 Tonne Tracked 360 Excavator		

Date: 15/05/2024
Scale: 1:25
Logged: SOJ
Checked: LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular to subrounded flint, concrete and brick fragments. Occasional cobbles of brick and concrete.
	1.00	D,J,V					
				1.10			MADE GROUND: Soft dark grey silt.
	1.50	D,J,V					
				1.70			Yellowish brown SAND. Sand is fine subrounded. Occasional grey clay lenses present.
				1.80			End of Pit at 1.800m

1
2
3
4
5

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability
Pit sides unstable

Remarks
Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

TRIAL PIT LOG

TrialPit No: MTP08
Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383702.00 - 392028.00 Level:
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 2.20
Equipment:	13 Tonne Tracked 360 Excavator		

Date: 15/05/2024
Scale: 1:25
Logged: SOJ
Checked: LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular to subrounded flint, concrete and brick fragments. Frequent brick fragments. Occasional cobbles of brick and concrete.
	1.50	D,J,V		1.60			Yellowish brown SAND. Sand is fine subrounded. Occasional grey clay lenses present.
	2.00	D,J,V		2.20			End of Pit at 2.200m

1
2
3
4
5

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability
Pit sides unstable

Remarks
Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

TRIAL PIT LOG

TrialPit No: MTP09
Sheet 1 of 1

Project Name:	Withington CDC	Project No. 22705	Co-ords: 383694.00 - 392022.00 Level:
Location:	Nell Lane, West Didsbury		Dimensions (m): 2.00 x 0.60 Depth 1.80
Equipment:	13 Tonne Tracked 360 Excavator		

Date: 15/05/2024
Scale: 1:25
Logged: SOJ
Checked: LGS

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.05			TOPSOIL. Brown sandy silty clay with rootlets. MADE GROUND: Brownish grey slightly sandy gravel. Gravel is coarse to very coarse angular to subrounded of flint, concrete and brick fragments. Occasional cobbles of brick and concrete.
	1.00	D,J,V					
				1.20			Yellowish brown SAND. Sand is fine subrounded. Occasional grey clay lenses present.
				1.80			End of Pit at 1.800m

D = small disturbed sample (tub)
J = organic sample (amber glass jar)
V = volatile sample (amber glass vial)
B = bulk bag sample
HSV = hand shear vane (kPa)
PP = pocket penetrometer (kg.cm2)
PID = photoionisation detector (ppm)

Stability
Pit sides very unstable

Remarks
Coordinates and levels, where indicated, must not be used for design purposes. The user is responsible for verifying all site and setting out dimensions.

APPENDIX 3 ▪ Soil Chemical Analysis Certificates

Merebrook
1 St Anns Street
Manchester
M2 7LR

e: sjames@idom.com

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

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

Analytical Report Number : 24-019992

Project / Site name:	Withington	**Samples received on:**	17/05/2024
Your job number:	226XX	**Samples instructed on/ Analysis started on:**	17/05/2024
Your order number:	24-2-FDO-LABS	**Analysis completed by:**	22/05/2024
Report Issue Number:	1	**Report issued on:**	24/05/2024
Samples Analysed:	14 soil samples		

Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201028	201029	201030	201031	201032
Sample Reference				MTP01	MTP01	MTP02	MTP02	MTP03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.60	1.00	1.50	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	12	12	11	12
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8	0.8
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MWI	MWI	MWI	MWI	MWI
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	-
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	9.4	8.2	7.9	8.4	8.3
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	290	69	530	100	66
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.145	0.0344	0.263	0.05	0.0331
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	145	34.4	263	50	33.1
Organic Matter (automated)	%	0.1	MCERTS	3	2.8	3.3	2.9	3
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.7	1.6	1.9	1.7	1.7
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201028	201029	201030	201031	201032
Sample Reference				MTP01	MTP01	MTP02	MTP02	MTP03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.60	1.00	1.50	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.21	0.16	0.2	< 0.05	0.07
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.71	0.51	0.67	0.08	0.18
Fluorene	mg/kg	0.05	MCERTS	0.48	0.37	0.44	< 0.05	0.09
Phenanthrene	mg/kg	0.05	MCERTS	5.7	3.8	5.5	0.44	1.7
Anthracene	mg/kg	0.05	MCERTS	1.9	1.1	1.7	0.11	0.46
Fluoranthene	mg/kg	0.05	MCERTS	12	5.6	11	0.92	5.1
Pyrene	mg/kg	0.05	MCERTS	12	4.9	10	0.85	4.8
Benzo(a)anthracene	mg/kg	0.05	MCERTS	5.9	2.1	4.8	0.45	2.3
Chrysene	mg/kg	0.05	MCERTS	6	2	4.7	0.41	2.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	8.4	2.4	5.9	0.54	2.8
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	4.1	1.1	2.9	0.25	0.88
Benzo(a)pyrene	mg/kg	0.05	MCERTS	9	2.4	6.5	0.5	2.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	5.1	1.2	3.4	0.3	1.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	1.3	0.36	0.85	< 0.05	0.43
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	5.6	1.4	3.7	0.35	1.6
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	78.8	29.4	62.3	5.2	26.4
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	12	13	5.3	15
Barium (aqua regia extractable)	mg/kg	1	MCERTS	230	130	210	28	200
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	15	11	12	4.9	13
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	15	11	12	4.9	13
Copper (aqua regia extractable)	mg/kg	1	MCERTS	30	20	26	11	30
Lead (aqua regia extractable)	mg/kg	1	MCERTS	86	17	63	12	75
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	0.4
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	12	10	2.7	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	27	21	4.5	22
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	35	73	14	120

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Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201028	201029	201030	201031	201032
Sample Reference				MTP01	MTP01	MTP02	MTP02	MTP03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.60	1.00	1.50	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	4.1	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	13	< 8.0	8.3	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	66	11	52	< 8.0	22
TPHCWG - Aliphatic >C35 - C40 EH_CU_1D_AL	mg/kg	10	NONE	31	< 10	33	< 10	13
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	82	11	60	< 10	22
TPHCWG - Aliphatic >C5 - C40 EH_CU+HS_1D_AL	mg/kg	10	NONE	110	11	93	< 10	35
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010 #%	< 0.010 #%
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	5.6	3.1	6.9	< 2.0	3.7
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	71	16	46	< 10	24
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	220	39	150	15	61
TPHCWG - Aromatic >EC35 - EC40 EH_CU_1D_AR	mg/kg	10	NONE	56	12	51	< 10	19
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	290	58	200	15 #%	89 #%
TPHCWG - Aromatic >EC5 - EC40 EH_CU+HS_1D_AR	mg/kg	10	NONE	350	71	250	15 #%	110 #%
TPH Total >C5 - C40 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	460	81	340	15 #%	140 #%
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

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Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201033	201034	201035	201036	201037
Sample Reference				MTP04	MTP05	MTP05	MTP06	MTP07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	1.50	2.10	1.00	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	27.5	< 0.1	< 0.1	< 0.1	33
Moisture Content	%	0.01	NONE	9.1	10	6.6	11	11
Total mass of sample received	kg	0.1	NONE	0.8	0.7	0.8	0.7	0.8
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	MWI	MWI	-	MWI	MWI
Actinolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	-	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	0.002
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	-	Loose Fibres
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	8.8	8.6	8.3	8.6	8.8
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	46	87	29	170	78
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0229	0.0436	0.0146	0.0874	0.0389
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	22.9	43.6	14.6	87.4	38.9
Organic Matter (automated)	%	0.1	MCERTS	2.1	2.5	1	2.3	2.3
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.2	1.4	0.6	1.3	1.3
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201033	201034	201035	201036	201037
Sample Reference				MTP04	MTP05	MTP05	MTP06	MTP07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	1.50	2.10	1.00	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	0.22	1.5
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.07	0.29	< 0.05	0.43	3.6
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.18	< 0.05	0.38	3.7
Phenanthrene	mg/kg	0.05	MCERTS	0.7	2.1	< 0.05	3.4	23
Anthracene	mg/kg	0.05	MCERTS	0.22	0.61	< 0.05	0.94	6.4
Fluoranthene	mg/kg	0.05	MCERTS	2.7	4.5	0.09	6	23
Pyrene	mg/kg	0.05	MCERTS	2.8	4.3	< 0.05	5.5	19
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.5	2.3	< 0.05	2.8	7.7
Chrysene	mg/kg	0.05	MCERTS	1.6	2.3	< 0.05	2.7	7.6
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.1	3.1	0.05	3.3	7.9
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.84	1	< 0.05	1.4	4.2
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.1	2.8	< 0.05	3.2	8.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.3	1.6	< 0.05	1.9	4.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.24	0.32	< 0.05	0.6	1
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.5	1.9	< 0.05	2.1	4.8
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	17.6	27.3	< 0.80	34.9	125
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	12	6	12	12
Barium (aqua regia extractable)	mg/kg	1	MCERTS	230	260	27	370	240
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.8	0.4	< 0.2	1.2	0.4
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	11	12	7	13	11
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	11	12	7	13	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	22	10	27	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	100	64	11	120	70
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	12	11	7.2	15	10
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	18	18	9.5	21	20
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	88	90	25	120	91

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Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201033	201034	201035	201036	201037
Sample Reference				MTP04	MTP05	MTP05	MTP06	MTP07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	1.50	2.10	1.00	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	1	< 1.0	1.3	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	3	< 2.0	3	2.8
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	8.1	12
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	14	32	< 8.0	54	85
TPHCWG - Aliphatic >C35 - C40 EH_CU_1D_AL	mg/kg	10	NONE	< 10	16	< 10	27	44
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	14	36	< 10	66	100
TPHCWG - Aliphatic >C5 - C40 EH_CU+HS_1D_AL	mg/kg	10	NONE	14	52	< 10	93	140
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010 #%	< 0.010 #%	< 0.010 #%	< 0.010 ##	< 0.010 ##
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	4.6	< 2.0	6.1	16
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	32	< 10	32	87
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	41	89	10	94	170
TPHCWG - Aromatic >EC35 - EC40 EH_CU_1D_AR	mg/kg	10	NONE	< 10	26	< 10	31	50
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	41 #%	130 #%	10 #%	130	270
TPHCWG - Aromatic >EC5 - EC40 EH_CU+HS_1D_AR	mg/kg	10	NONE	41 #%	150 #%	10 #%	160	320
TPH Total >C5 - C40 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	55 #%	200 #%	10 #%	260	470
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

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

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Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201038	201039	201040	201041
Sample Reference				MTP07	MTP08	MTP08	MTP09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.50	1.50	2.00	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	11	9.3	13
Total mass of sample received	kg	0.1	NONE	0.8	0.8	0.8	0.8
Asbestos							
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected	-	Detected
Asbestos Analyst ID	N/A	N/A	N/A	-	MWI	-	MWI
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected
Amosite detected	Type	N/A	ISO 17025	-	-	-	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Detected
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	0.008
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibrous Debris
General Inorganics							
pH (L099)	pH Units	N/A	MCERTS	7.8	8.4	8.6	8.4
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	840	690	170	60
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.422	0.345	0.0827	0.03
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	422	345	82.7	30
Organic Matter (automated)	%	0.1	MCERTS	4.4	3.2	0.6	1.9
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.6	1.8	0.4	1.1
Total Phenols							
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201038	201039	201040	201041
Sample Reference				MTP07	MTP08	MTP08	MTP09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.50	1.50	2.00	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Speciated PAHs							
Naphthalene	mg/kg	0.05	MCERTS	7.5	0.07	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.89	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	23	0.1	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	24	0.06	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	150	0.89	< 0.05	0.76
Anthracene	mg/kg	0.05	MCERTS	43	0.24	< 0.05	0.23
Fluoranthene	mg/kg	0.05	MCERTS	140	2.5	< 0.05	2.4
Pyrene	mg/kg	0.05	MCERTS	120	2.5	< 0.05	2.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	48	1.3	< 0.05	1.3
Chrysene	mg/kg	0.05	MCERTS	47	1.4	< 0.05	1.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	49	1.7	< 0.05	1.5
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	18	0.73	< 0.05	0.63
Benzo(a)pyrene	mg/kg	0.05	MCERTS	43	1.6	< 0.05	1.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	24	0.93	< 0.05	0.8
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	4.6	0.22	< 0.05	0.19
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	26	1.1	< 0.05	0.97
Total PAH							
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	775	15.3	< 0.80	13.6
Heavy Metals / Metalloids							
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	15	7.4	10
Barium (aqua regia extractable)	mg/kg	1	MCERTS	170	1000	45	190
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.7	< 0.2	0.5
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (III)	mg/kg	1	NONE	18	20	11	12
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	20	11	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	45	31	6.6	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	90	86	6.2	56
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.5	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	14	6.9	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.2	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	26	21	18	17
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	100	16	65

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Lab Sample Number				201038	201039	201040	201041
Sample Reference				MTP07	MTP08	MTP08	MTP09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.50	1.50	2.00	1.00
Date Sampled				15/05/2024	15/05/2024	15/05/2024	15/05/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Petroleum Hydrocarbons							
TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	4.5	< 2.0	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	9.1	10	< 8.0	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	58	60	< 8.0	24
TPHCWG - Aliphatic >C35 - C40 EH_CU_1D_AL	mg/kg	10	NONE	25	22	< 10	< 10
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	67	75	< 10	24
TPHCWG - Aliphatic >C5 - C40 EH_CU+HS_1D_AL	mg/kg	10	NONE	92	96	< 10	24
TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010 ##	< 0.010 ##	< 0.010 ##	< 0.010 ##
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	4.5	1.2	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	69	3.1	< 2.0	2.4
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	340	20	< 10	11
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	380	97	< 10	39
TPHCWG - Aromatic >EC35 - EC40 EH_CU_1D_AR	mg/kg	10	NONE	61	29	< 10	14
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	800	120	< 10	52
TPHCWG - Aromatic >EC5 - EC40 EH_CU+HS_1D_AR	mg/kg	10	NONE	860	150	< 10	66
TPH Total >C5 - C40 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	950	250	< 10	90
VOCs							
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0

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

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Analytical Report Number: 24-019992
Project / Site name: Withington
Your Order No: 24-2-FDO-LABS

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

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

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

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

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
201037	MTP07	1.00	128	Loose Fibres	**Chrysotile**	0.002	**0.002**
201041	MTP09	1.00	163	Loose Fibrous Debris	**Chrysotile**	0.008	**0.008**

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

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 24-019992
Project / Site name: Withington

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
201028	MTP01	None Supplied	0.5	Brown loam and sand with gravel
201029	MTP01	None Supplied	0.6	Brown loam and sand with gravel and vegetation
201030	MTP02	None Supplied	1	Brown loam and sand with gravel and vegetation
201031	MTP02	None Supplied	1.5	Brown loam with gravel and vegetation
201032	MTP03	None Supplied	1	Brown loam with gravel and vegetation
201033	MTP04	None Supplied	1	Brown loam and sand with gravel and vegetation
201034	MTP05	None Supplied	1.5	Brown loam and sand with gravel and vegetation
201035	MTP05	None Supplied	2.1	Brown sand with gravel
201036	MTP06	None Supplied	1	Brown loam and sand with gravel and vegetation
201037	MTP07	None Supplied	1	Brown loam and sand with gravel and vegetation
201038	MTP07	None Supplied	1.5	Brown loam and sand with gravel
201039	MTP08	None Supplied	1.5	Brown loam and sand with gravel
201040	MTP08	None Supplied	2	Brown sand with gravel
201041	MTP09	None Supplied	1	Brown sand with gravel

Analytical Report Number : 24-019992
Project / Site name: Withington

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated EPA-16 PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080	W	MCERTS

Analytical Report Number : 24-019992
Project / Site name: Withington

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

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

APPENDIX 4

- Waste Classification Report
- WAC Analysis Certificates

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.

5MWU5-GG167-O9AHL

Job name

Withington CDC[2]

Description/Comments

Data generated from Idom Merebrook Site investigation of arisings. i2 Laboratory Report number: 24-019992

Project

22705

Site

Withington

Classified by

Name:
Linford Shacklady
Date:
30 May 2024 15:36 GMT
Telephone:
01773829988

Company:
Idom Merebrook Ltd
Cromford Mills
Mill Lane
Matlock
DE4 3RQ

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

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	04 Aug 2022

Next 3 year Refresher due by Aug 2025

Purpose of classification

7 - Disposal of Waste

Address of the waste

Withington Community Hospital, Nell Ln, West Didsbury, Manchester **Post Code** M20 2LR

SIC for the process giving rise to the waste

42990 Construction of other civil engineering projects n.e.c.

Description of industry/producer giving rise to the waste

Redevelopment of hospital

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

waste created during excavation of foundations roads and drainage

Description of the waste

Made ground was described as brownish grey becoming dark grey sandy gravel and contained frequent brick and concrete with occasional ceramic, wood, metal, tarmac, plastic and rare glass. No visible asbestos containing materials were recorded. No odours or staining were recorded.
Natural ground (two locations MTP05 2.1 m bgl and MTP08 2.0 m bgl) was described as yellow brown sand with occasional grey clay lenses.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	MTP01--15052024-0.50		Non Hazardous		3
2	MTP01--15052024-0.60		Non Hazardous		6
3	MTP02--15052024-1.00		Non Hazardous		9
4	MTP02--15052024-1.50		Non Hazardous		12
5	MTP03--15052024-1.00		Non Hazardous		15
6	MTP04--15052024-1.00		Non Hazardous		18
7	MTP05--15052024-1.50		Non Hazardous		21
8	MTP05--15052024-2.10		Non Hazardous		24
9	MTP06--15052024-1.00		Non Hazardous		27
10	MTP07--15052024-1.00		Non Hazardous		30
11	MTP07--15052024-1.50		Non Hazardous		33
12	MTP08--15052024-1.50		Non Hazardous		36
13	MTP08--15052024-2.00		Non Hazardous		39
14	MTP09--15052024-1.00		Non Hazardous		41

Related documents

#	Name	Description
1	24-019992_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Linford Shacklady

Created date: 30 May 2024 15:36 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	44
Appendix B: Rationale for selection of metal species	45
Appendix C: Version	46

Classification of sample: MTP01--15052024-0.50

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

Sample details

Sample name:
MTP01--15052024-0.50
Moisture content:
12%
(wet weight 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: 12% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14	mg/kg	1.32	16.266	mg/kg	0.00163 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3		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 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30	mg/kg	1.126	29.723	mg/kg	0.00297 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	86	mg/kg		75.68	mg/kg	0.00757 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		14	mg/kg	1.273	15.678	mg/kg	0.00157 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	120.488	mg/kg	0.012 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		459	mg/kg		403.92	mg/kg	0.0404 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				9.4	pH		9.4	pH	9.4 pH		
				PH									
19		naphthalene				0.21	mg/kg		0.185	mg/kg	0.0000185 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				0.71	mg/kg		0.625	mg/kg	0.0000625 %	✓	
			201-469-6	83-32-9									
22		fluorene				0.48	mg/kg		0.422	mg/kg	0.0000422 %	✓	
			201-695-5	86-73-7									
23		phenanthrene				5.7	mg/kg		5.016	mg/kg	0.000502 %	✓	
			201-581-5	85-01-8									
24		anthracene				1.9	mg/kg		1.672	mg/kg	0.000167 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				12	mg/kg		10.56	mg/kg	0.00106 %	✓	
			205-912-4	206-44-0									
26		pyrene				12	mg/kg		10.56	mg/kg	0.00106 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				5.9	mg/kg		5.192	mg/kg	0.000519 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				6	mg/kg		5.28	mg/kg	0.000528 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				8.4	mg/kg		7.392	mg/kg	0.000739 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				4.1	mg/kg		3.608	mg/kg	0.000361 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				9	mg/kg		7.92	mg/kg	0.000792 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				5.1	mg/kg		4.488	mg/kg	0.000449 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				1.3	mg/kg		1.144	mg/kg	0.000114 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				5.6	mg/kg		4.928	mg/kg	0.000493 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				230	mg/kg	1.117	225.981	mg/kg	0.0226 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	42.416	mg/kg	0.00424 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.103 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0404%)

Classification of sample: MTP01--15052024-0.60

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

Sample details

Sample name:
MTP01--15052024-0.60
Moisture content:
12%
(wet weight 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: 12% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	13.943 mg/kg	0.00139 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20 mg/kg	1.126	19.816 mg/kg	0.00198 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	17 mg/kg		14.96 mg/kg	0.0015 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		12 mg/kg	1.273	13.439 mg/kg	0.00134 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		35 mg/kg	1.245	38.337 mg/kg	0.00383 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		81 mg/kg		71.28 mg/kg	0.00713 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑					
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
19		naphthalene				0.16	mg/kg		0.141	mg/kg	0.0000141 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				0.51	mg/kg		0.449	mg/kg	0.0000449 %	✓	
			201-469-6	83-32-9									
22		fluorene				0.37	mg/kg		0.326	mg/kg	0.0000326 %	✓	
			201-695-5	86-73-7									
23		phenanthrene				3.8	mg/kg		3.344	mg/kg	0.000334 %	✓	
			201-581-5	85-01-8									
24		anthracene				1.1	mg/kg		0.968	mg/kg	0.0000968 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				5.6	mg/kg		4.928	mg/kg	0.000493 %	✓	
			205-912-4	206-44-0									
26		pyrene				4.9	mg/kg		4.312	mg/kg	0.000431 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				2.1	mg/kg		1.848	mg/kg	0.000185 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				2	mg/kg		1.76	mg/kg	0.000176 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				2.4	mg/kg		2.112	mg/kg	0.000211 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				1.1	mg/kg		0.968	mg/kg	0.0000968 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				2.4	mg/kg		2.112	mg/kg	0.000211 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				1.2	mg/kg		1.056	mg/kg	0.000106 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				0.36	mg/kg		0.317	mg/kg	0.0000317 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				1.4	mg/kg		1.232	mg/kg	0.000123 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				130	mg/kg	1.117	127.728	mg/kg	0.0128 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				27	mg/kg	1.785	42.416	mg/kg	0.00424 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0392 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00713%)

Classification of sample: MTP02--15052024-1.00

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

Sample details

Sample name:
MTP02--15052024-1.00
Moisture content:
12%
(wet weight 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: 12% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	15.105	mg/kg	0.00151 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12	mg/kg	1.462	17.539	mg/kg	0.00175 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		26	mg/kg	1.126	25.76	mg/kg	0.00258 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	63	mg/kg		55.44	mg/kg	0.00554 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		10	mg/kg	1.273	11.199	mg/kg	0.00112 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		73	mg/kg	1.245	79.96	mg/kg	0.008 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		344	mg/kg		302.72	mg/kg	0.0303 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
19		naphthalene				0.2	mg/kg		0.176	mg/kg	0.0000176 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				0.67	mg/kg		0.59	mg/kg	0.000059 %	✓	
			201-469-6	83-32-9									
22		fluorene				0.44	mg/kg		0.387	mg/kg	0.0000387 %	✓	
			201-695-5	86-73-7									
23		phenanthrene				5.5	mg/kg		4.84	mg/kg	0.000484 %	✓	
			201-581-5	85-01-8									
24		anthracene				1.7	mg/kg		1.496	mg/kg	0.00015 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				11	mg/kg		9.68	mg/kg	0.000968 %	✓	
			205-912-4	206-44-0									
26		pyrene				10	mg/kg		8.8	mg/kg	0.00088 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				4.8	mg/kg		4.224	mg/kg	0.000422 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				4.7	mg/kg		4.136	mg/kg	0.000414 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				5.9	mg/kg		5.192	mg/kg	0.000519 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				2.9	mg/kg		2.552	mg/kg	0.000255 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				6.5	mg/kg		5.72	mg/kg	0.000572 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				3.4	mg/kg		2.992	mg/kg	0.000299 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				0.85	mg/kg		0.748	mg/kg	0.0000748 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				3.7	mg/kg		3.256	mg/kg	0.000326 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				210	mg/kg	1.117	206.33	mg/kg	0.0206 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	32.99	mg/kg	0.0033 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.081 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0303%)

Classification of sample: MTP02--15052024-1.50

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

Sample details

Sample name:
MTP02--15052024-1.50
Moisture content:
11%
(wet weight 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: 11% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.3	mg/kg	1.32	6.228	mg/kg	0.000623 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		4.9	mg/kg	1.462	7.162	mg/kg	0.000716 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11	mg/kg	1.126	11.022	mg/kg	0.0011 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12	mg/kg		10.68	mg/kg	0.00107 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		2.7	mg/kg	1.273	3.058	mg/kg	0.000306 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		14	mg/kg	1.245	15.509	mg/kg	0.00155 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		15	mg/kg		13.35	mg/kg	0.00134 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
19		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				0.08	mg/kg		0.0712	mg/kg	0.00000712 %	✓	
			201-469-6	83-32-9									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
23		phenanthrene				0.44	mg/kg		0.392	mg/kg	0.0000392 %	✓	
			201-581-5	85-01-8									
24		anthracene				0.11	mg/kg		0.0979	mg/kg	0.00000979 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				0.92	mg/kg		0.819	mg/kg	0.0000819 %	✓	
			205-912-4	206-44-0									
26		pyrene				0.85	mg/kg		0.757	mg/kg	0.0000757 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				0.45	mg/kg		0.401	mg/kg	0.0000401 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				0.41	mg/kg		0.365	mg/kg	0.0000365 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				0.54	mg/kg		0.481	mg/kg	0.0000481 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				0.25	mg/kg		0.223	mg/kg	0.0000222 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.445	mg/kg	0.0000445 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				0.3	mg/kg		0.267	mg/kg	0.0000267 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				0.35	mg/kg		0.312	mg/kg	0.0000311 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				28	mg/kg	1.117	27.823	mg/kg	0.00278 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				4.5	mg/kg	1.785	7.15	mg/kg	0.000715 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0115 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00134%)

Classification of sample: MTP03--15052024-1.00

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

Sample details

Sample name:
MTP03--15052024-1.00
Moisture content:
12%
(wet weight 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: 12% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15	mg/kg	1.32	17.428	mg/kg	0.00174 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30	mg/kg	1.126	29.723	mg/kg	0.00297 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	75	mg/kg		66	mg/kg	0.0066 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.4	mg/kg	1.353	0.476	mg/kg	0.0000476 %	✓	
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		13	mg/kg	1.273	14.558	mg/kg	0.00146 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		120	mg/kg	1.245	131.442	mg/kg	0.0131 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		143	mg/kg		125.84	mg/kg	0.0126 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16	●	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
19		naphthalene				0.07	mg/kg		0.0616	mg/kg	0.00000616 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21	●	acenaphthene				0.18	mg/kg		0.158	mg/kg	0.0000158 %	✓	
			201-469-6	83-32-9									
22	●	fluorene				0.09	mg/kg		0.0792	mg/kg	0.00000792 %	✓	
			201-695-5	86-73-7									
23	●	phenanthrene				1.7	mg/kg		1.496	mg/kg	0.00015 %	✓	
			201-581-5	85-01-8									
24	●	anthracene				0.46	mg/kg		0.405	mg/kg	0.0000405 %	✓	
			204-371-1	120-12-7									
25	●	fluoranthene				5.1	mg/kg		4.488	mg/kg	0.000449 %	✓	
			205-912-4	206-44-0									
26	●	pyrene				4.8	mg/kg		4.224	mg/kg	0.000422 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				2.3	mg/kg		2.024	mg/kg	0.000202 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				2.2	mg/kg		1.936	mg/kg	0.000194 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				2.8	mg/kg		2.464	mg/kg	0.000246 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				0.88	mg/kg		0.774	mg/kg	0.0000774 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				2.4	mg/kg		2.112	mg/kg	0.000211 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32	●	indeno[123-cd]pyrene				1.4	mg/kg		1.232	mg/kg	0.000123 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				0.43	mg/kg		0.378	mg/kg	0.0000378 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34	●	benzo[ghi]perylene				1.6	mg/kg		1.408	mg/kg	0.000141 %	✓	
			205-883-8	191-24-2									
35	●	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { ● barium oxide }				200	mg/kg	1.117	196.505	mg/kg	0.0197 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				22	mg/kg	1.785	34.561	mg/kg	0.00346 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0667 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0126%)

Classification of sample: MTP04--15052024-1.00

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

Sample details

Sample name:
MTP04--15052024-1.00
Moisture content:
9.1%
(wet weight 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: 9.1% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	15.602	mg/kg	0.00156 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8	mg/kg	1.142	0.831	mg/kg	0.0000831 %	✓	
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	16.077	mg/kg	0.00161 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23	mg/kg	1.126	23.539	mg/kg	0.00235 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	100	mg/kg		90.9	mg/kg	0.00909 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		12	mg/kg	1.273	13.881	mg/kg	0.00139 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		88	mg/kg	1.245	99.567	mg/kg	0.00996 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		55	mg/kg		49.995	mg/kg	0.005 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									
19		naphthalene				0.06	mg/kg		0.0545	mg/kg	0.00000545 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				0.07	mg/kg		0.0636	mg/kg	0.00000636 %	✓	
			201-469-6	83-32-9									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
23		phenanthrene				0.7	mg/kg		0.636	mg/kg	0.0000636 %	✓	
			201-581-5	85-01-8									
24		anthracene				0.22	mg/kg		0.2	mg/kg	0.00002 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				2.7	mg/kg		2.454	mg/kg	0.000245 %	✓	
			205-912-4	206-44-0									
26		pyrene				2.8	mg/kg		2.545	mg/kg	0.000255 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				1.5	mg/kg		1.364	mg/kg	0.000136 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				1.6	mg/kg		1.454	mg/kg	0.000145 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				2.1	mg/kg		1.909	mg/kg	0.000191 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				0.84	mg/kg		0.764	mg/kg	0.0000764 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				2.1	mg/kg		1.909	mg/kg	0.000191 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				1.3	mg/kg		1.182	mg/kg	0.000118 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				0.24	mg/kg		0.218	mg/kg	0.0000218 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				1.5	mg/kg		1.364	mg/kg	0.000136 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				230	mg/kg	1.117	233.428	mg/kg	0.0233 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				18	mg/kg	1.785	29.209	mg/kg	0.00292 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0597 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.005%)

Classification of sample: MTP05--15052024-1.50

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

Sample details

Sample name:
MTP05--15052024-1.50
Moisture content:
10%
(wet weight 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: 10% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	14.26	mg/kg	0.00143 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4	mg/kg	1.142	0.411	mg/kg	0.0000411 %	✓	
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12	mg/kg	1.462	17.539	mg/kg	0.00175 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22	mg/kg	1.126	22.293	mg/kg	0.00223 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	64	mg/kg		57.6	mg/kg	0.00576 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		11	mg/kg	1.273	12.599	mg/kg	0.00126 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		90	mg/kg	1.245	100.822	mg/kg	0.0101 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		208	mg/kg		187.2	mg/kg	0.0187 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
19		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				0.29	mg/kg		0.261	mg/kg	0.0000261 %	✓	
			201-469-6	83-32-9									
22		fluorene				0.18	mg/kg		0.162	mg/kg	0.0000162 %	✓	
			201-695-5	86-73-7									
23		phenanthrene				2.1	mg/kg		1.89	mg/kg	0.000189 %	✓	
			201-581-5	85-01-8									
24		anthracene				0.61	mg/kg		0.549	mg/kg	0.0000549 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				4.5	mg/kg		4.05	mg/kg	0.000405 %	✓	
			205-912-4	206-44-0									
26		pyrene				4.3	mg/kg		3.87	mg/kg	0.000387 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				2.3	mg/kg		2.07	mg/kg	0.000207 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				2.3	mg/kg		2.07	mg/kg	0.000207 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				3.1	mg/kg		2.79	mg/kg	0.000279 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				1	mg/kg		0.9	mg/kg	0.00009 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				2.8	mg/kg		2.52	mg/kg	0.000252 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				1.6	mg/kg		1.44	mg/kg	0.000144 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				0.32	mg/kg		0.288	mg/kg	0.0000288 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				1.9	mg/kg		1.71	mg/kg	0.000171 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				260	mg/kg	1.117	261.262	mg/kg	0.0261 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				18	mg/kg	1.785	28.92	mg/kg	0.00289 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0736 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0187%)

Classification of sample: MTP05--15052024-2.10

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

Sample details

Sample name:
MTP05--15052024-2.10
Moisture content:
6.6%
(wet weight 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: 6.6% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6	mg/kg	1.32	7.399	mg/kg	0.00074 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7	mg/kg	1.462	10.231	mg/kg	0.00102 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.126	10.516	mg/kg	0.00105 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11	mg/kg		10.274	mg/kg	0.00103 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		7.2	mg/kg	1.273	8.558	mg/kg	0.000856 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		25	mg/kg	1.245	29.064	mg/kg	0.00291 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		10	mg/kg		9.34	mg/kg	0.000934 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**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		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
18		pH			PH		8.3	pH		8.3	pH	8.3 pH		
19		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
20		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
21		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
22		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
23		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
24		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		fluoranthene		205-912-4	206-44-0		0.09	mg/kg		0.0841	mg/kg	0.00000841 %	✓	
26		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
27		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
28		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
29		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.05	mg/kg		0.0467	mg/kg	0.00000467 %	✓	
30		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
31		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
32		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
33		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
34		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
35		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
36		barium { barium oxide }		215-127-9	1304-28-5		27	mg/kg	1.117	28.156	mg/kg	0.00282 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		9.5	mg/kg	1.785	15.84	mg/kg	0.00158 %	✓	
											Total:	0.0139 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00093%)

Classification of sample: MTP06--15052024-1.00

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

Sample details

Sample name:
MTP06--15052024-1.00
Moisture content:
11%
(wet weight 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: 11% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	14.101	mg/kg	0.00141 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	1.22	mg/kg	0.000122 %	✓	
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27	mg/kg	1.126	27.055	mg/kg	0.00271 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	120	mg/kg		106.8	mg/kg	0.0107 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		15	mg/kg	1.273	16.989	mg/kg	0.0017 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		120	mg/kg	1.245	132.935	mg/kg	0.0133 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		254	mg/kg		226.06	mg/kg	0.0226 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
19		naphthalene				0.22	mg/kg		0.196	mg/kg	0.0000196 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				0.43	mg/kg		0.383	mg/kg	0.0000383 %	✓	
			201-469-6	83-32-9									
22		fluorene				0.38	mg/kg		0.338	mg/kg	0.0000338 %	✓	
			201-695-5	86-73-7									
23		phenanthrene				3.4	mg/kg		3.026	mg/kg	0.000303 %	✓	
			201-581-5	85-01-8									
24		anthracene				0.94	mg/kg		0.837	mg/kg	0.0000837 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				6	mg/kg		5.34	mg/kg	0.000534 %	✓	
			205-912-4	206-44-0									
26		pyrene				5.5	mg/kg		4.895	mg/kg	0.000489 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				2.8	mg/kg		2.492	mg/kg	0.000249 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				2.7	mg/kg		2.403	mg/kg	0.00024 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				3.3	mg/kg		2.937	mg/kg	0.000294 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				1.4	mg/kg		1.246	mg/kg	0.000125 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				3.2	mg/kg		2.848	mg/kg	0.000285 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				1.9	mg/kg		1.691	mg/kg	0.000169 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				0.6	mg/kg		0.534	mg/kg	0.0000534 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				2.1	mg/kg		1.869	mg/kg	0.000187 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				370	mg/kg	1.117	367.665	mg/kg	0.0368 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	33.365	mg/kg	0.00334 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0984 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0226%)

Classification of sample: MTP07--15052024-1.00

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

Sample details

Sample name:
MTP07--15052024-1.00
Moisture content:
11%
(wet weight 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: 11% Wet Weight 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	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	14.101 mg/kg	0.00141 %	✓	
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.4 mg/kg	1.142	0.407 mg/kg	0.0000407 %	✓	
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	16.077 mg/kg	0.00161 %		
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22 mg/kg	1.126	22.045 mg/kg	0.0022 %	✓	
6	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	70 mg/kg		62.3 mg/kg	0.00623 %	✓	
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
8	nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		10 mg/kg	1.273	11.326 mg/kg	0.00113 %	✓	
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
10	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		91 mg/kg	1.245	100.809 mg/kg	0.0101 %	✓	
11	TPH (C6 to C40) petroleum group			TPH		464 mg/kg		412.96 mg/kg	0.0413 %	✓	
12	confirm TPH has NOT arisen from diesel or petrol					☑					
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
14	benzene	601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									
19		naphthalene				1.5	mg/kg		1.335	mg/kg	0.000133 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				3.6	mg/kg		3.204	mg/kg	0.00032 %	✓	
			201-469-6	83-32-9									
22		fluorene				3.7	mg/kg		3.293	mg/kg	0.000329 %	✓	
			201-695-5	86-73-7									
23		phenanthrene				23	mg/kg		20.47	mg/kg	0.00205 %	✓	
			201-581-5	85-01-8									
24		anthracene				6.4	mg/kg		5.696	mg/kg	0.00057 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				23	mg/kg		20.47	mg/kg	0.00205 %	✓	
			205-912-4	206-44-0									
26		pyrene				19	mg/kg		16.91	mg/kg	0.00169 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				7.7	mg/kg		6.853	mg/kg	0.000685 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				7.6	mg/kg		6.764	mg/kg	0.000676 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				7.9	mg/kg		7.031	mg/kg	0.000703 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				4.2	mg/kg		3.738	mg/kg	0.000374 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				8.4	mg/kg		7.476	mg/kg	0.000748 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				4.2	mg/kg		3.738	mg/kg	0.000374 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				1	mg/kg		0.89	mg/kg	0.000089 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				4.8	mg/kg		4.272	mg/kg	0.000427 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				240	mg/kg	1.117	238.486	mg/kg	0.0238 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				20	mg/kg	1.785	31.776	mg/kg	0.00318 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				20	mg/kg		17.8	mg/kg	0.00178 %	✓	
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.105 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0413%)

Classification of sample: MTP07--15052024-1.50

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

Sample details

Sample name:
MTP07--15052024-1.50
Moisture content:
13%
(wet weight 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: 13% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21	mg/kg	1.32	24.122	mg/kg	0.00241 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3		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 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		45	mg/kg	1.126	44.079	mg/kg	0.00441 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	90	mg/kg		78.3	mg/kg	0.00783 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.5	mg/kg	1.353	0.589	mg/kg	0.0000589 %	✓	
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		16	mg/kg	1.273	17.714	mg/kg	0.00177 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2	mg/kg	2.554	2.666	mg/kg	0.000267 %	✓	
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	119.119	mg/kg	0.0119 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		953	mg/kg		829.11	mg/kg	0.0829 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**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		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18		pH			PH		7.8	pH		7.8	pH	7.8 pH		
19		naphthalene	601-052-00-2	202-049-5	91-20-3		7.5	mg/kg		6.525	mg/kg	0.000653 %	✓	
20		acenaphthylene		205-917-1	208-96-8		0.89	mg/kg		0.774	mg/kg	0.0000774 %	✓	
21		acenaphthene		201-469-6	83-32-9		23	mg/kg		20.01	mg/kg	0.002 %	✓	
22		fluorene		201-695-5	86-73-7		24	mg/kg		20.88	mg/kg	0.00209 %	✓	
23		phenanthrene		201-581-5	85-01-8		150	mg/kg		130.5	mg/kg	0.0131 %	✓	
24		anthracene		204-371-1	120-12-7		43	mg/kg		37.41	mg/kg	0.00374 %	✓	
25		fluoranthene		205-912-4	206-44-0		140	mg/kg		121.8	mg/kg	0.0122 %	✓	
26		pyrene		204-927-3	129-00-0		120	mg/kg		104.4	mg/kg	0.0104 %	✓	
27		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		48	mg/kg		41.76	mg/kg	0.00418 %	✓	
28		chrysene	601-048-00-0	205-923-4	218-01-9		47	mg/kg		40.89	mg/kg	0.00409 %	✓	
29		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		49	mg/kg		42.63	mg/kg	0.00426 %	✓	
30		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		18	mg/kg		15.66	mg/kg	0.00157 %	✓	
31		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		43	mg/kg		37.41	mg/kg	0.00374 %	✓	
32		indeno[123-cd]pyrene		205-893-2	193-39-5		24	mg/kg		20.88	mg/kg	0.00209 %	✓	
33		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		4.6	mg/kg		4.002	mg/kg	0.0004 %	✓	
34		benzo[ghi]perylene		205-883-8	191-24-2		26	mg/kg		22.62	mg/kg	0.00226 %	✓	
35		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
36		barium { barium oxide }		215-127-9	1304-28-5		170	mg/kg	1.117	165.131	mg/kg	0.0165 %	✓	
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		26	mg/kg	1.785	40.381	mg/kg	0.00404 %	✓	
											Total:	0.202 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0829%)

Classification of sample: MTP08--15052024-1.50

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

Sample details

Sample name:
MTP08--15052024-1.50
Moisture content:
11%
(wet weight 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: 11% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15	mg/kg	1.32	17.626	mg/kg	0.00176 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.712	mg/kg	0.0000712 %	✓	
3		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 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		31	mg/kg	1.126	31.063	mg/kg	0.00311 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	86	mg/kg		76.54	mg/kg	0.00765 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		14	mg/kg	1.273	15.857	mg/kg	0.00159 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		100	mg/kg	1.245	110.78	mg/kg	0.0111 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		246	mg/kg		218.94	mg/kg	0.0219 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
19		naphthalene				0.07	mg/kg		0.0623	mg/kg	0.00000623 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				0.1	mg/kg		0.089	mg/kg	0.0000089 %	✓	
			201-469-6	83-32-9									
22		fluorene				0.06	mg/kg		0.0534	mg/kg	0.00000534 %	✓	
			201-695-5	86-73-7									
23		phenanthrene				0.89	mg/kg		0.792	mg/kg	0.0000792 %	✓	
			201-581-5	85-01-8									
24		anthracene				0.24	mg/kg		0.214	mg/kg	0.0000214 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				2.5	mg/kg		2.225	mg/kg	0.000223 %	✓	
			205-912-4	206-44-0									
26		pyrene				2.5	mg/kg		2.225	mg/kg	0.000223 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				1.3	mg/kg		1.157	mg/kg	0.000116 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				1.4	mg/kg		1.246	mg/kg	0.000125 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				1.7	mg/kg		1.513	mg/kg	0.000151 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				0.73	mg/kg		0.65	mg/kg	0.000065 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				1.6	mg/kg		1.424	mg/kg	0.000142 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				0.93	mg/kg		0.828	mg/kg	0.0000828 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				0.22	mg/kg		0.196	mg/kg	0.0000196 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				1.1	mg/kg		0.979	mg/kg	0.0000979 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				1000	mg/kg	1.117	993.69	mg/kg	0.0994 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	33.365	mg/kg	0.00334 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.155 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0219%)

Classification of sample: MTP08--15052024-2.00

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

Sample details

Sample name:
MTP08--15052024-2.00
Moisture content:
9.3%
(wet weight 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: 9.3% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.4	mg/kg	1.32	8.862	mg/kg	0.000886 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	16.077	mg/kg	0.00161 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6.6	mg/kg	1.126	6.74	mg/kg	0.000674 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	6.2	mg/kg		5.623	mg/kg	0.000562 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		6.9	mg/kg	1.273	7.964	mg/kg	0.000796 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		16	mg/kg	1.245	18.063	mg/kg	0.00181 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		<40	mg/kg		<40	mg/kg	<0.004 %		<**LOD**
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
19		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
21		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
23		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
24		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
25		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
26		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
27		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
36		barium { barium oxide }				45	mg/kg	1.117	45.57	mg/kg	0.00456 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				18	mg/kg	1.785	29.145	mg/kg	0.00291 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0187 %		

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: MTP09--15052024-1.00

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

Sample details

Sample name:
MTP09--15052024-1.00
Moisture content:
13%
(wet weight 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: 13% Wet Weight 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		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	11.487	mg/kg	0.00115 %	✓	
2		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5	mg/kg	1.142	0.497	mg/kg	0.0000497 %	✓	
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12	mg/kg	1.462	17.539	mg/kg	0.00175 %		
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
5		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20	mg/kg	1.126	19.59	mg/kg	0.00196 %	✓	
6		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	56	mg/kg		48.72	mg/kg	0.00487 %	✓	
7		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
8		nickel { nickel(II) oxide (nickel monoxide) }	028-003-00-2	215-215-7 [1] 234-323-5 [2] - [3]	1313-99-1 [1] 11099-02-8 [2] 34492-97-2 [3]		13	mg/kg	1.273	14.393	mg/kg	0.00144 %	✓	
9		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
10		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		65	mg/kg	1.245	70.389	mg/kg	0.00704 %	✓	
11		TPH (C6 to C40) petroleum group			TPH		90	mg/kg		78.3	mg/kg	0.00783 %	✓	
12		confirm TPH has NOT arisen from diesel or petrol					☑							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
19		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
21		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-469-6	83-32-9									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
23		phenanthrene				0.76	mg/kg		0.661	mg/kg	0.0000661 %	✓	
			201-581-5	85-01-8									
24		anthracene				0.23	mg/kg		0.2	mg/kg	0.00002 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				2.4	mg/kg		2.088	mg/kg	0.000209 %	✓	
			205-912-4	206-44-0									
26		pyrene				2.3	mg/kg		2.001	mg/kg	0.0002 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				1.3	mg/kg		1.131	mg/kg	0.000113 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				1.2	mg/kg		1.044	mg/kg	0.000104 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				1.5	mg/kg		1.305	mg/kg	0.000131 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				0.63	mg/kg		0.548	mg/kg	0.0000548 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				1.4	mg/kg		1.218	mg/kg	0.000122 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				0.8	mg/kg		0.696	mg/kg	0.0000696 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				0.19	mg/kg		0.165	mg/kg	0.0000165 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				0.97	mg/kg		0.844	mg/kg	0.0000844 %	✓	
			205-883-8	191-24-2									
35		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
36		barium { barium oxide }				190	mg/kg	1.117	184.558	mg/kg	0.0185 %	✓	
			215-127-9	1304-28-5									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				17	mg/kg	1.785	26.403	mg/kg	0.00264 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		asbestos				80	mg/kg		69.6	mg/kg	0.00696 %	✓	
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0562 %		

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 Soil unlikely to exhibit flammable properties below 1000 mg/kg. No stains or odours reported.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00783%)

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **lead compounds with the exception of those specified elsewhere in this Annex**

GB MCL 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 MCL protocols, considers many simple lead compounds to be Carcinogenic category 2
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 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

- **confirm TPH has NOT arisen from diesel or petrol**

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

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

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

- **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

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 <= conc. < 3 % , Eye Irrit. 2; H319 1 <= conc. < 3 % , Aquatic Chronic 2; H411

barium oxide (EC Number: 215-127-9, CAS Number: 1304-28-5)

Description/Comments: Data from ECHA's C&L Inventory Database, Sigma Aldrich SDS dated 6/2/20
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/88825
Data source date: 02 Apr 2020
Hazard Statements: Acute Tox. 3; H301 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 1; H332

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

most likely worst case species based on site history and analytical data

mercury {mercury dichloride}

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

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

most likely worst case species based on site history and analytical data

selenium {nickel selenate}

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

zinc {zinc oxide}

most likely worst case species based on site history and analytical data

barium {barium oxide}

not a contaminant of concern, most likely species

vanadium {divanadium pentaoxide; vanadium pentoxide}

no hexavalent species

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2024.149.6082.11243 (28 May 2024)
HazWasteOnline Database: 2024.149.6082.11243 (28 May 2024)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023
GB MCL List v3.0 - version 3.0 of 11th January 2024
GB MCL List v4.0 - version 4.0 of 2nd March 2024

Merebrook
1 St Anns Street
Manchester
M2 7LR

e: sjames@idom.com

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

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

Analytical Report Number : 24-019993

Project / Site name:	Withington	**Samples received on:**	17/05/2024
Your job number:	226XX	**Samples instructed on/ Analysis started on:**	17/05/2024
Your order number:	24-2-FDO-LABS	**Analysis completed by:**	22/05/2024
Report Issue Number:	1	**Report issued on:**	23/05/2024
Samples Analysed:	3 10:1 WAC samples		

Signed:

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

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

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

Waste Acceptance Criteria Analytical Results

Report No:	**24-019993**						
					Client:	**MEREBROOK**	
Location	**Withington**						
Lab Reference (Sample Number)	201042				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	15/05/2024				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	MTP01						
Depth (m)	0.60						
Solid Waste Analysis							
TOC (%)**	1.6				3%	5%	6%
Loss on Ignition (%) **	3.5				--	--	10%
BTEX (µg/kg) **	< 5.0				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	27				500	--	--
Total PAH (WAC-17) (mg/kg)	29.9				100	--	--
pH (units)**	7.9				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	6.2				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1 mg/l			10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.00100			< 0.0100	0.5	2	25
Barium *	0.0281			0.281	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.00099			0.0099	0.5	10	70
Copper *	0.018			0.18	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.000746			0.00746	0.5	10	30
Nickel *	< 0.00030			< 0.0030	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0066			0.066	4	50	200
Chloride *	1.0			10	800	15000	25000
Fluoride*	1.7			17	10	150	500
Sulphate *	4.8			48	1000	20000	50000
TDS*	72			720	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	12.5			125	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.8						
Dry Matter (%)	88						
Moisture (%)	12						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

** = MCERTS accredited

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

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

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

Waste Acceptance Criteria Analytical Results

Report No:	**24-019993**						
					Client:	**MEREBROOK**	
Location	**Withington**						
Lab Reference (Sample Number)	201043				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	15/05/2024				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	MTP03						
Depth (m)	1.00						
Solid Waste Analysis							
TOC (%)**	1.7				3%	5%	6%
Loss on Ignition (%) **	3.2				--	--	10%
BTEX (µg/kg) **	< 5.0				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	33				500	--	--
Total PAH (WAC-17) (mg/kg)	26.5				100	--	--
pH (units)**	7.6				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	6.5				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1 mg/l			10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.00353			0.0353	0.5	2	25
Barium *	0.0463			0.463	20	100	300
Cadmium *	0.000362			0.00362	0.04	1	5
Chromium *	0.012			0.12	0.5	10	70
Copper *	0.019			0.19	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.00376			0.0376	0.5	10	30
Nickel *	0.010			0.10	0.4	10	40
Lead *	< 0.0010			< 0.010	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.018			0.18	4	50	200
Chloride *	0.57			5.7	800	15000	25000
Fluoride*	0.99			9.9	10	150	500
Sulphate *	7.6			76	1000	20000	50000
TDS*	76			760	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	11.0			110	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.8						
Dry Matter (%)	88						
Moisture (%)	12						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

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

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

Waste Acceptance Criteria Analytical Results

Report No:	**24-019993**						
					Client:	**MEREBROOK**	
Location	**Withington**						
Lab Reference (Sample Number)	201044				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	15/05/2024				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	MTP07						
Depth (m)	1.00						
Solid Waste Analysis							
TOC (%)**	1.3				3%	5%	6%
Loss on Ignition (%) **	2.4				--	--	10%
BTEX (µg/kg) **	< 5.0				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	150				500	--	--
Total PAH (WAC-17) (mg/kg)	132				100	--	--
pH (units)**	7.8				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	9.6				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1 mg/l			10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.00404			0.0404	0.5	2	25
Barium *	0.0256			0.256	20	100	300
Cadmium *	< 0.000100			< 0.00100	0.04	1	5
Chromium *	0.0011			0.011	0.5	10	70
Copper *	0.017			0.17	2	50	100
Mercury *	< 0.000500			< 0.00500	0.01	0.2	2
Molybdenum *	0.00140			0.0140	0.5	10	30
Nickel *	0.00077			0.0077	0.4	10	40
Lead *	0.0021			0.021	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0074			0.074	4	50	200
Chloride *	1.4			14	800	15000	25000
Fluoride*	0.86			8.6	10	150	500
Sulphate *	4.8			48	1000	20000	50000
TDS*	61			610	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	11.9			119	500	800	1000
Leach Test Information							
Stone Content (%)	33.0						
Sample Mass (kg)	0.8						
Dry Matter (%)	89						
Moisture (%)	11						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

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** = MCERTS accredited

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
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Analytical Report Number : 24-019993
Project / Site name: Withington

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
201042	MTP01	None Supplied	0.6	Brown loam and sand with gravel and vegetation
201043	MTP03	None Supplied	1	Brown loam with gravel and vegetation
201044	MTP07	None Supplied	1	Brown loam and sand with gravel and vegetation

Analytical Report Number : 24-019993
Project / Site name: Withington

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH at 20°C in soil	Determination of pH in soil by addition of water followed by electrometric measurement	In-house method	L005B	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with hexane followed by GC-MS	In-house method based on USEPA 8082	L027B	D	MCERTS
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L031B	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination	L033B	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR Analyser	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037B	W	NONE
Metals in leachate by ICP-OES	Determination of metals in leachate by acidification followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L039B	W	ISO 17025
Sample Preparation		In-house method	L043B	W	NONE
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046B	W	NONE
Loss on ignition of soil @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	In-house method	L047	D	MCERTS
Speciated EPA-16 PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088	D/W	NONE

Analytical Report Number : 24-019993
Project / Site name: Withington

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080	W	ISO 17025
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser	In-house based on MEWAM Method ISBN 0117516260	L082B	W	ISO 17025
WAC Leachate 10:1		In-house method	L043B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

IDOM

IDOM Cromford Mills, Mill Lane, Matlock, Derbyshire DE4 3RQ
t +44 (0)1773 829 988 **e** info.derbyshire@idom.com **idom.com**
Registered in England No. 02740216 Registered office: as above