

M60/M62/M66 Simister Island Interchange

TR010064

ENVIRONMENTAL STATEMENT APPENDICES

APPENDIX 9.3 GROUND INVESTIGATION REPORT

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

**M60/M62/M66 Simister Island Interchange
Development Consent Order 202[]**

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Executive Summary

The Scheme is “M60/M62/M66 Simister Island Interchange” located north of Manchester and forms part of the Regional Investment Programme (RIP). Simister Island is a 3-level interchange where the M60, M62 and M66 motorways meet. It is one of the busiest motorway junctions in the north-west, used by around 90,000 vehicles each day. The junction struggles with high volumes of traffic, far above what it was designed for, and as a result suffers from congestion and poor journey time reliability. As such, improving the interchange is considered a critical infrastructure project to support economic growth by better connecting major cities across the north of England, reducing congestion, reducing safety risks, improving journey time reliability for all road users, and increasing connectivity between local areas.

The junction suffers from congestion at peak times, with traffic queuing back onto the main line approaches. A key problem is eastbound traffic on the M60, which must negotiate several sets of traffic lights at the junction to continue round the orbital route. This and other busy turning movements need increased capacity to reduce congestion and improve journey times for customers. A new free-flow link road is proposed between the M60 EB to the M60 SB to relieve these issues at M60 J18. The Scheme consists of the following elements/sections.

- M60/M62 Mainline J17-J18 – upgrade existing Smart Motorway to D5M Controlled Motorway cross section with discontinuous hard shoulders.
- M66/M60 Mainline – provide 4 lanes southbound through-junction running.
- M60 EB to M60 SB – provide a free flow link (Northern Loop).
- M66 SB Diverge – provide a new 2-lane diverge.
- M60 EB to M66 NB – realign the existing free flow link diverge.
- M60 NB to M60 WB – upgrade the existing free flow link to 2 lanes.
- M62 WB to M60 SB – realign the existing free flow link.
- J18 Circulatory Carriageway – upgrade the existing circulatory to accommodate reduced movements.
- J17 EB Merge – upgrade the existing EB merge to provide a lane gain.
- J17 WB Diverge – upgrade the existing diverge to a lane drop.

This Ground Investigation Report (GIR) has been prepared in general accordance with Highways England, now National Highways, Departmental Standard CD622, ‘Managing Geotechnical Risk’. The design is to be carried out by Costain Jacobs Partnership (CJP).

This GIR builds upon the information presented in the 2018 Preliminary Sources Study Report (PSSR). It describes the existing ground conditions based upon the available ground investigation information, analyses the ground profiles and testing, and designates appropriate parameters for future geotechnical design works.

The ground conditions for the foundations and earthworks changes are detailed in the report and comprise thick glacial deposits overlying bedrock. Parameters have been derived to allow the detailed design of gantry foundations, the abutments and piers for Pike Fold bridge, modifications to existing earthworks, and the construction of new earthworks which will be required in areas of proposed widening such as:

- Pike Fold Viaduct Approach Embankments.
- Northern Loop Earthworks.
- Pike Fold Bridge Approach Embankments.

The report is concluded with a Geotechnical Risk Register and preliminary engineering assessment which highlights the specific risks and provides a discussion on the likely geotechnical solutions which will need to be developed during detail design.

1. Introduction

1.1 Scope and objectives of the report

A Ground Investigation Report (GIR), detailing the findings and subsequent interpretation of 3No. ground investigation fieldworks which have been undertaken at M60/M62/M66 Simister Island Interchange (the Scheme).

The ground investigation fieldworks undertaken at the site and detailed within this GIR are as follows, with all subsequent post-fieldwork monitoring, and laboratory testing contained thereafter:

- The 2021 fieldworks undertaken by Ian Farmers Associates between 28th June and 2nd December 2021 covering the Preferred Route design.
- The 2022 fieldworks undertaken by Allied Exploration and Geotechnics Limited between 2nd November and 2nd December 2022 covering Pond 2 and Pond 6.
- The 2023 fieldworks undertaken by Allied Exploration and Geotechnics Limited between 9th January and 7th March covering the design developed for Development Consent Order (DCO) application.

This report has been prepared in accordance with Design Manual for Roads & Bridges (DMRB) CD 622 - 'Managing Geotechnical Risk'.

The objectives of the ground investigations were to:

- Provide information to develop the ground model in areas subject to new or modified earthworks under the proposed Scheme.
- Inform the design of foundation solutions for new bridge abutments and piers.
- Inform the design of foundations to new gantries.
- Inform the design of new retaining structures.
- Provide information on the geotechnical properties of superficial and bedrock materials to inform all aspects of geotechnical design.
- Provide information on soil and/or groundwater contamination to inform the earthworks and foundation design.

The scope of the intrusive ground investigations was designed in line with the recommendations of BS 5930:2015+A1:2020 (British Standards Institution, 2020), which is compliant with BS EN 1997-1 (British Standards Institution, 2013) and 1997-2 (British Standards Institution, 2007) and their related standards. It has also been developed in accordance with BS 10175:2011+A2:2017 (British Standards Institution, 2017) and BS 8576:2013 (British Standards Institution, 2013).

The scope of the works for the assessment included the following:

- A summary of existing information.
- Design and implementation of the intrusive ground investigations, in-situ testing, soil and rock sampling, laboratory geoenvironmental and geotechnical testing, groundwater monitoring and sampling of installed boreholes, and ground gas monitoring of installed boreholes.
- Design and implementation of a non-intrusive geophysical survey.
- Interpretation of ground conditions to develop a refined ground model and geotechnical risk register.
- Interpretation of geotechnical data to provide an engineering assessment and to inform the subsequent geotechnical design report.
- Preparation of this ground investigation report.

1.2 Description of the project

The Scheme title is “M60/M62/M66 Simister Island Interchange” and forms part of the Regional Investment Programme (RIP).

The Scheme is located at the northern extent of the M60 Manchester orbital motorway. The centre of the site is located approximately 8km north of Manchester at Ordnance Survey Grid Reference 382835E, 405841N. Simister Island interchange is a grade separated junction providing links between the M60 (the south-western and south-eastern arms of the interchange), the M62 (the north-eastern arm of the interchange) and the M66 (the north-western arm). At the interchange the M60 mainline transitions into the M62, and the M66 mainline transitions into the M60.

The objectives of the Scheme are to improve traffic flow and increase the performance of the junction to relieve traffic congestion at the junction and in turn reduce congestion on the M60, M62 and M66 mainline carriageways. A full description of the Scheme can be found in Chapter 2: The Scheme of the Environmental Statement (ES) (TR010064/APP/6.1).

1.3 Geotechnical category

The project has been assessed as Geotechnical Category 2 as it is likely to include “*conventional types of geotechnical structures, earthworks and activities, with no exceptional geotechnical risks, unusual or difficult ground conditions or loading conditions. Designs for Category 2 should normally include quantitative data and analysis to ensure that the fundamental requirements are satisfied. Routine procedures for field and laboratory testing and for design and execution may be used*”.

2. Existing information

2.1 General

The desk study information has previously been reviewed during completion of the 2018 PSSR, however, the Scheme boundary has changed since the PSSR was completed. The revised boundary includes the additional areas as follows:

- Extension of the M66 motorway corridor north to Hollins Plantation.
- North of the Simister Island Interchange, the playing fields south of Griffe Lane, east of Unsworth to include the area surrounding attenuation pond 2.
- Egypt Lane farm track extending from the northeast quadrant of Simister Island Interchange crossing the M62 south towards Simister Lane.
- The M60 motorway corridor south of Simister Island Interchange towards and including the area east of the motorway for proposed attenuation pond 5.
- The land southwest of Simister Island Interchange to include the area surrounding proposed attenuation pond 4.
- A 160m stretch of Sandgate Road south of the M60 corridor to Prestwich Heys F.C.
- Sections of Kenilworth Avenue, Warwick Close and Barnard Avenue south of the M60 corridor east of Bury Old Road.
- A 100m stretch of Sandgate Road north of the M60 Corridor to Thatch Leach Lane.
- The land northwest of Simister Island Interchange to include the area surrounding proposed attenuation pond 7 up to Mode Hill Lane and adjacent to the housing along Marston Close.

A desk study review of the additional areas within the revised Scheme boundary has been undertaken. Where additional information has been identified or the interpretation of existing information has updated since the development of the 2018 PSSR, this has been noted in subsequent subsections. The following section is not intended to provide a reproduction of the information presented within the PSSR.

2.2 Site description

2.2.1 The site

The Scheme is located at the northern extent of the M60 Manchester orbital motorway. The centre of the site is located approximately 8km north of Manchester at Ordnance Survey Grid Reference 382835E, 405841N.

Simister Island interchange is a grade separated junction providing links between the M60 (the south-western and south-eastern arms of the interchange), the M62 (the north-eastern arm of the interchange) and the M66 (the north-western arm). At the interchange the M60 mainline transitions into the M62, and the M66 mainline transitions into the M60.

The study area has an irregular reverse L-shape, with the southwest-northeast corridor of the M60 and the northwest-southeast corridor of the M66 providing the main body of the L-shape.

Extending outwards from M60 Junction 18 as the focus, the M60 limb of the L-shape extends southwest to Junction 17 at Whitefield Interchange, whilst the M66 limb extends northwest to Hollins Plantation and southeast to the Bury-Manchester district boundary. The study area also includes areas beyond the existing highway boundary in the area around Junction 18, comprising the open fields to the north, west and south of the Simister Island interchange. Furthermore, a triangular

parcel of land, adjacent to the south-western boundary of the M60 and located south of Simister Island interchange, is also included within the Scheme.

The location and extent of the study area is shown on the geological long section drawings HE548642-JAC-HGT-SII_MLT-DR-GI-0001-10 in Annex A.

The study area has an undulating topography with elevations ranging from approximately 70 to 110mAOD.

The prominent site features identified during site reconnaissance surveys include:

- M66/M62/M60 interchanges and motorways, associated cuttings, embankments, bridges and retaining structures.
- Open, occasional boggy, fields adjacent to the motorways and interchanges.
- Woodland to the north of the intersection between Egypt Lane and the M66 north-western carriageway.
- Man-made mound in open field, to the south of Egypt Lane and to the north of the Simister Island interchange.

2.3 Geology

2.3.1 Geological succession

The M60/M62 carriageways to the west of Junction 18 are located on an embankment, which transitions onto a cutting at the approximate location of Sandgate Road overbridge. The M66 slip roads at Junction 18 are also supported on embankments. The highway embankments are likely to be constructed from engineered fill, based on historical exploratory hole records, which is anticipated to comprise predominantly granular material, consisting of sand or gravel, with varying silt proportions, cobbles, and boulders. In addition, weakly cemented pulverised fuel ash (PFA) was encountered by previous exploratory holes, between Sandgate Road overbridge and Haweswater underpass, at a location where the British Geological Survey mapping records deposits of peat.

A mound, located within the field immediately to the north of Simister Island interchange, is anticipated to comprise made ground. There are no previous exploratory hole records within this area, however, it is anticipated that the material was deposited during the excavation works associated with the construction of the adjacent M66 mainline carriageway at Simister Island interchange.

The natural superficial deposits within the Scheme extents predominantly comprise several types of glacial deposits, with two notable areas of peat, one northeast of Simister Island Interchange and the other, along the M60 corridor stretching 500m east from Sandgate Road overbridge. There are two discrete areas of Head deposits, one southwest of the Simister Island Interchange at Heaton Park Golf Course and the other immediately north of Pike Fold Golf Club north of Simister Island Interchange east of the M66. The glacial deposits identified within the Scheme extent include:

- Glaciofluvial Deposits, comprising sand and gravel, locally with lenses of silt, clay, or organic materials.
- Glaciolacustrine Deposits, consisting of silt and clay, potentially laminated and interbedded with organic rich or peaty material.
- Glacial Ice Contact Deposits, comprising sand and gravel, locally with lenses of silt, clay, or organic material.
- Hummocky Glacial Deposits, comprising undifferentiated sand and gravel.
- Till, anticipated to comprise firm to stiff clay with varying proportions of granular material.

The underlying bedrock comprises the Manchester Marls Formation, the Chester Formation, the Pennine Upper Coal Measures (PUCM), the Pennine Middle Coal Measures (PMCM) and the Pennine Lower Coal Measures (PLCM). The far north of the Scheme along the M66 north of Junction 18 is underlain by the PLCM. The remainder of the Scheme is underlain by alternating layers of the units above.

The Manchester Marl consists of red brown, gypsiferous mudstone. The Chester Formation comprises red brown and pinkish red medium grained sandstone, moderately cemented, with quartzite pebbles towards the base. The PUCM, PMCM and PLCM typically comprise mudstone and siltstone, interbedded with fine to medium grained sandstone, sea-earths, marine bands, and coal seams.

BGS geological map sheet 85, scale 1:50,000, provides rockhead contours map, which indicates the elevation of the bedrock surface beneath the site is variable and ranges from 25 to 100mAOD.

2.3.2 Geological structure

The BGS maps indicate that the study area is crosscut by four significant faults. The throw of these faults has resulted in bedrock of Chester Formation being downthrown against the PMCM.

2.4 Hydrogeology

2.4.1 Depth to groundwater and flow

Historical boreholes within the wider Scheme boundary were reviewed for groundwater observations. A water seepage was identified in SD80NW177 at 0.35m in material described as fill, likely road construction. The historical borehole is located on the M60 corridor, south of Simister Island Interchange.

2.4.2 Licensed groundwater abstractions

There are two licensed groundwater abstractions located within the study area and surrounding 1km radius:

- Pike Fold Golf Course (used for spray irrigation and general use), located 58 to 87m northwest of the Scheme boundary; and,
- Whitefield Golf Club (used for spray irrigation and general use), located 766m north-west of the Scheme boundary.

2.4.3 Private groundwater abstractions

No enquiries have been made regarding the presence of unlicensed private groundwater abstractions within the study area and surrounding 1km radius. Therefore, the presence of private groundwater abstractions cannot be discounted.

2.5 Hydrology

2.5.1 Surface water bodies

Surface water bodies identified within the wider Scheme boundary include:

- Streams present at the southern Scheme boundary that flow into a 'Fish Pond' within Heaton Park to the immediate west of the M60 corridor, south of Simister Island Interchange.

- Parr Brook flows in a north-west direction, within the culvert beneath the M60 embankment between Junction 17 and 18. Parr Brook eventually discharges into the River Roch approximately 2.5km to the north-west of the M60 carriageway.
- A series of ponds and ditches are present along the northern Scheme boundary, which sits immediately south of Pike Fold Golf Course. The ponds and ditches eventually discharge into the Castle Brook, located approximately 60m northeast of the Scheme boundary. The Castle Brook flows north, passed the Hollins Plantation, and converges with the Hollins Brook approximately 370m east of the Scheme boundary's northern tip.
- Hollins Brook is located approximately 250m north of the revised site boundary, crossing the M66 east to west south of Aviation Road.

2.6 Manmade features and historical development

Historical maps of the additional areas within the revised Scheme boundary have been reviewed to summarise any historical development of the site and the surrounding area. Any additional information regarding the revised locations has been included below:

- The 1:10,560 scale 1848-1851 mapping shows ponds next to playing fields on the M66 north of Simister Island Interchange and next to Egypt Lane northeast of the interchange.
- The 1:10,560 scale 1915 mapping shows Parrenthorn Farm built on the southeast corner of Simister Island Interchange and the surrounding local roads have been developed. On the 1:10,000 scale 1981-1985 mapping Parrenthorn school is constructed.

2.7 Information from regulatory authorities

2.7.1 Planning records

A review of Bury Council's planning portal found no pertinent records related to the M60/M66/M62 interchanges and carriageways.

2.7.2 Local authority environmental health department information

The Environmental Health Department of Bury Council was contacted for environmental information regarding two historical landfill sites, located to the south of Simister village and adjacent to the south-western boundary of the M60 carriageway. The findings of this enquiry are summarised below:

- Landfill Site 1: Land to the south of Whitehouse Farm, Simister.
 - Grid reference: 383213, 405673.
 - License number: RD/LIC/1046/93.
 - Licence holder: Costain Engineering and Construction Limited.
 - Tipping period: 1993 to 1994.
 - Waste: soil, clay, and sand from adjacent motorway arisings.
 - Council opinion: Low gas generation potential and low likelihood of ground gas migrating and impacting nearby properties.
- Landfill Site 2: M66-Costain, Simister.
 - Grid reference: 383216, 405395.
 - License number: RD/LIC/1064/94.
 - Licence holder: Costain Engineering and Construction Limited.
 - Tipping period: 1994.

- Waste: Inert soil from adjacent motorway arisings.
- Council opinion: Low gas generation potential and low likelihood of ground gas migrating and impacting nearby properties.

The Council advised that if the sites were to be redeveloped, it is likely that, as a minimum, a preliminary risk assessment and characterisation of ground conditions would be required along with a watching brief during the ground works.

Following further engagement, the Council provided the environmental permits for both landfill sites. The permits confirmed the following pertinent additional information:

- Landfill regulator: Former Greater Manchester Waste Regulation Authority.
- Landfill operator: George Noblet (Plant Hire) Limited.
- Use on associated planning application: deposition of waste soil would be regraded and used to improve the quality of agricultural land.
- Ground gas and surface water monitoring was required at both sites, but groundwater monitoring was not considered necessary.
- The landfill sites should have benefited from a 1m thick surface cap, comprising 850mm of subsoil and 150mm of topsoil.
- A stream was present within the boundary of Landfill Site 2. A 300mm deep grip and mound were to be created to prevent surface water runoff entering the stream.

It should be noted that Landfill Site 1 is located outside the revised Scheme boundary.

Copies of the Council's environmental search response and the landfill environmental permits are provided in Annex B.

2.7.3 Environment Agency information

The Environment Agency (EA) was contacted for environmental information regarding two historical landfill sites, located to the south of Simister village and adjacent to the south-western boundary of the M60 carriageway.

The EA have confirmed that they do not hold any additional information regarding the landfill sites, to that detailed within the Groundsure Insight Report. Their records indicate that neither site is designated as a Special Site. The EA advised that Bury Council should be contacted to confirm if they hold any further information.

The EA were unable to confirm whether the reuse of soils from the historical landfills could be undertaken in accordance with the CL:AIRE Definition of Waste Code of Practice or require a Waste Recovery Permit.

Copies of the EA responses are provided in Annex B.

2.8 Utilities

During production of the 2018 PSSR, enquiries were made with the utility service providers regarding their assets within the study area. However, during the ground investigation unmapped services were identified in the following locations:

- A buried drainage pipe at 2.02m in BH-N06A.
- A possible service at 1.3m in WS08.
- A flat concrete obstruction (possible service) at 1.00m in BH-G07A.

2.9 Contaminated Land Initial Conceptual Site Model and Preliminary Risk Assessment

2.9.1 Introduction

Current best-practice guidance for the assessment of land contamination is contained in EA guidance Land contamination risk management (LCRM (Environment Agency, 8 October 2020, updated 19 April 2021), which superseded Contaminated Land Report 11: Model Procedures for the Management of Land Contamination (CLR11 (Department for Environment, Food and Rural Affairs, 2004) on 8th October 2020. LCRM identifies three core components in the assessment and management of land contamination, comprising:

- Risk Assessment (including Preliminary Risk Assessment, Generic Quantitative Risk Assessment and (if required) Detailed Quantitative Risk Assessment.
- Options Appraisal (if required); and
- Remediation Strategy Implementation (if required).

2.9.2 Initial Conceptual Site Model and Preliminary Risk Assessment

Based on the information in the preceding subsections, an initial conceptual site model (iCSM) has been developed, and potential pollutant linkages (PPLs) have been identified by a preliminary risk assessment. The PPLs are summarised in Table 2-1.

The risk is based on a consideration of both:

- The likelihood of an event (probability – takes into account both the presence of the hazard and receptor and the integrity of the pathway); and,
- The severity of the potential consequence (takes into account both the potential severity of the hazard and the sensitivity of the receptor).

Further information on the risk assessment methodology is provided in Table 2-1.

The PPL associated with the lateral migration of ground gas to adjacent residential properties has not been considered due to the following:

- Landfill Sites 1 and 2 (see section 2.7.2) have low gas generation potentials given the inert material deposited and the time elapsed since deposition (c. 30 years).
- Although located adjacent to residential properties, Landfill Site 1 is located outside the revised Scheme boundary and sits at a higher elevation to the M66/M60 northwest-southeast cutting. Therefore, it is anticipated that the existing baseline conditions within Landfill Site 1 will not be affected by the proposed works.
- Landfill Site 2 is located more than 200m away from residential properties, with intervening soft landscaping, or separated from them by the M66/M60 northwest-southeast cutting. Therefore, any ground gases generated from Landfill Site 2 are likely to be emitted to the atmosphere than impact adjacent residential properties as a result of the proposed works.
- The made ground within the mound (see section 2.3.1) and M60/M62 embankment is considered to have very low to low gas generation potential, as outlined in BS8576 (British Standards Institution, 2013) and CL:AIRE RB (Contaminated Land: Application in Real Environments, 2013).
- The mound and M60/M62 embankment are raised landforms, therefore any ground gas generated will be released into the atmosphere, rather than migrating laterally or downwards.
- The natural organic soils, including peat, have very low to low gas generation potentials based on guidance outlined in BS8576 (British Standards Institution, 2013).

- The proposed Scheme is not anticipated to create any additional gas migration pathways between the above ground gas sources and adjacent properties.

The PPL associated with the exposure of site end users to soils and/or groundwater contamination has not been considered due to the following:

- The proposed Scheme will primarily comprise highway infrastructure, with the majority of land below hardstanding. There will be areas of soft landscaping and Sustainable Drainage Systems (SuDS), however, it is considered unlikely that these will be accessible due to the vicinity to the highways.

Based on the above, the PPLs associated with lateral migration of ground gas and exposure of site end users to contamination are not assessed further within this report.

Table 2-1 Preliminary Risk Assessment

Potential source	Potential contaminants	Potential pathway	Potential receptors	Consequence	Probability	Risk
On-site sources of contamination including: <ul style="list-style-type: none"> • Motorway construction (including made ground, engineered fill and PFA). • Past and current industrial land uses (including motorway fuel/chemical spills). • Agricultural activities. 	Heavy metals, inorganics, polycyclic aromatic hydrocarbons, petroleum hydrocarbons, chlorinated solvents, asbestos, ammoniacal nitrogen, chloride, herbicides, etc.	Migration and ingress of ground gases and vapours into confined spaces, build-up in confined spaces and explosion/ asphyxiation.	Construction and future maintenance workers.	Severe	Low likelihood	Moderate
		Oral, dermal, and inhalation exposure with contaminated soil and dust.	Construction and future maintenance workers.	Severe	Low Likelihood	Moderate
			Adjacent site users.	Medium	Low Likelihood	Moderate/Low
		Leaching from contaminated soils and percolation to groundwater, via permeable strata or preferential pathways.	Groundwaters in Secondary and Principal aquifers.	Medium	Low Likelihood	Moderate/Low
		Leaching from contaminated soils and surface runoff.	Surface water bodies: <ul style="list-style-type: none"> • Ponds – immediately NE • Ditches – immediately NE • Parr Brook – M60 embankment (onsite) • Castle Brook – 60m NE • Hollins Brook – 250m N 	Medium	Low Likelihood	Moderate/Low
				Medium	Low Likelihood	Moderate/Low
		Lateral migration of groundwater contaminants	Licensed groundwater abstractions: <ul style="list-style-type: none"> • Pike Fold Golf Course (spray irrigation and general use, aquifer unknown) – 58-87m NW • Whitefield Golf Club spray irrigation and general use, aquifer unknown) – 766m NW 	Medium	Low Likelihood	Moderate/Low
Off-site sources of contamination including: <ul style="list-style-type: none"> • Past and current industrial land uses (including motorway fuel/chemical spills). • Agricultural activities. 	Heavy metals, inorganics, polycyclic aromatic hydrocarbons, petroleum hydrocarbons, chlorinated solvents, asbestos, ammoniacal nitrogen, chloride, herbicides, etc.	Migration and ingress of ground gases and vapours into confined spaces, build-up in confined spaces and explosion/ asphyxiation.	Construction and future maintenance workers.	Severe	Unlikely	Moderate/Low
		Oral, dermal, and inhalation exposure with contaminated soil and dust.		Medium	Low Likelihood	Moderate/Low
		Leaching from soils and percolation to aquifer, via permeable strata or preferential pathways.	Groundwaters in Secondary and Principal aquifers.	Medium	Low Likelihood	Moderate/Low
		Leaching from contaminated soils and percolation to groundwater, via permeable strata or preferential pathways.	Surface water bodies: <ul style="list-style-type: none"> • Ponds – immediately NE • Ditches – immediately NE • Parr Brook – M60 embankment (onsite) 	Medium	Low Likelihood	Moderate/Low

2.9.3 Data gaps and uncertainties

The following uncertainties and data gaps have been identified during the refinement of the iCSM and the preliminary risk assessment:

- Gaps in the historical mapping data from the 1970s to the present.
- The ground and groundwater conditions within the Scheme boundary are unknown.
- The soil, leachate, and groundwater chemical quality within the Scheme boundary is unknown.
- The presence of private unlicensed groundwater abstractions within the study area and surrounding 1km radius is unknown.

The identified PPLs, uncertainties and data gaps will be addressed further as part of the generic quantitative risk assessment (GQRA) in Section 6.

3. Field and laboratory studies

3.1 Site reconnaissance survey

Due to the online nature of much of the site, no reconnaissance survey was undertaken prior to the commencement of the ground investigation. Instead, an assessment of each locality was undertaken once traffic management was in place and each location could be reviewed safely, prior to the investigation commencing.

Based on the outcome of these assessments, the ground investigation specification and method statements were modified to allow for the following additional measures:

- Machine digging changed to hand digging for trial pits located adjacent to buried services or within areas of restrictive access.
- Smaller multipurpose drilling rig adopted over a cable percussion rig to drill deep boreholes in areas of restrictive access.
- Modular dynamic sample rig adopted over a tracked dynamic sampling rig to drill shallow boreholes in areas of restrictive area or areas located on slopes.
- Vegetation clearance in selective borehole locations to facilitate access and working areas.
- Mobilisation of a tracked dumper to tow cable percussive rigs across soft ground.
- Mobilisation of ground protection mats to facilitate a safe working area for drillers.
- Mobilisation of a wheeled excavator (e.g., JCB 3CX) to create level working platforms for drilling plant and personnel.

3.2 Geomorphological/ geological mapping and topographic survey

Geomorphological/ geological mapping exercises were not undertaken as part of this investigation. However, it should be noted that topographic surveys were undertaken concurrently by other parties, on behalf of Costain Group, during the ground investigation works.

3.3 Ground investigations

Ground investigation for the Scheme was undertaken across 3No. phases. The details of each investigation are described as follows. Exploratory hole location plans for the completed works are shown on the geological long sections within Annex A.

3.3.1 2021 fieldworks

An intrusive ground investigation and subsequent monitoring of well installations was undertaken by Ian Farmer Associates, on behalf of Costain Group, between 28th June and 2nd December 2021, with subsequent post-fieldwork monitoring and laboratory testing thereafter. This investigation was for the original Preferred Route design in use at the start of preliminary design. A Coal Authority permit was obtained prior to the ground investigation due to the site being underlain by the Pennine Middle Coal Measures.

The objectives of the intrusive ground investigation were to:

- Investigate data gaps in the ground conditions from previous investigations, particularly areas where new embankments, bridge abutments and piers are to be constructed.
- Inform ground model development and enable Eurocode-compliant geotechnical design.
- Determine geotechnical properties of materials encountered including strength and stiffness.

- Determine the soil and groundwater geochemistry qualities beneath study area.
- Undertake a monitoring programme to understand groundwater seasonal variations and the ground gas regimes within the study area.

The intrusive ground investigation comprised:

- 42No. cable percussive boreholes to depths of up to 40.25mBGL.
- 3No. cable percussive boreholes with rotary coring follow-on to depths of up to 52.5mBGL.
- 1No. cable percussive boreholes with rotary open hole follow-on to depths of up to 37.82mBGL.
- 2No. dynamic sample boreholes with rotary coring follow-on to depths of up to 37.00mBGL.
- 1No. dynamic sample boreholes with rotary coring follow-on to depths of up to 20.50mBGL.
- 52No. windowless sample boreholes to depth of up to 10.45mBGL.
- 2No. hand excavated trial pits to depths of up to 1.7mBGL.
- 2No. in-situ California Bearing Ratio (CBR) tests.
- Groundwater and ground gas installations.
- Post-fieldwork groundwater and ground gas monitoring.
- Geotechnical and geo-environmental laboratory testing.
- Provision of factual report and associated AGS (4.0) data.

3.3.1.1 2021 Ground Investigation Timing

The ground investigation was initially proposed to commence in May 2021 and take 6 weeks. Due to mobilising delays the ground investigation commenced in June 2021 and lasted until December 2021. The increase in the timescale of the ground investigation is due to an accumulation of factors listed as follows:

- A change in scope. The ground investigation for attenuation ponds, comprising 14 boreholes and 6 windowless sampler boreholes, was added to the programme once the ground investigation had already commenced on site.
- Difficulties in securing traffic management. The original plan was to undertake exploratory holes located on the highways network at night, with the aid of traffic management closures, whilst exploratory holes located off network would be undertaken during the day. However due to the ongoing availability of traffic management a number of boreholes were removed from an online to an offline position to ensure an availability of ground investigation data in that location.
- Unfavourable ground conditions, not limited to but including, blowing sands, obstructions, refusals, deep and variable rockhead, boulders and cobbles, unstable ground beneath the drilling rig and water ingress meant some boreholes had to be terminated short of target depth and redrilled, sometimes several times.
- A number of borehole positions were relocated during the ground investigation generally due to safety or access concerns, as outlined in subsection 3.1.
- As the latter half of the ground investigation was undertaken in the winter months, the weather caused the ground to become wet and muddy which provided additional challenges in reaching some of the proposed borehole locations.

3.3.2 2022 fieldworks

An intrusive ground investigation and subsequent monitoring of well installations was undertaken by Allied Exploration and Geotechnics Limited, on behalf of Costain Group, between 2nd November and 2nd December 2022, with subsequent post-fieldwork monitoring and laboratory testing thereafter. This investigation comprised the offline positions for attenuation ponds 2 and 6.

The objectives of the intrusive ground investigation were to:

- Investigate the ground conditions at the location of 2No. proposed attenuation ponds (Pond 2 and 6).
- Inform the ground model development and enable Eurocode-compliant geotechnical design.
- Determine geotechnical properties of materials encountered including strength and stiffness.
- Determine the presence of soil and/or groundwater contamination.
- Undertake a monitoring programme to understand groundwater seasonal variations and the ground gas regimes within the areas of interest.

The intrusive ground investigation comprised:

- 4No. cable percussive boreholes to depths of up to 30.00mBGL.
- 3No. windowless sample boreholes to depth of up to 5.45mBGL.
- Groundwater and ground gas installations.
- Post-fieldwork groundwater and ground gas monitoring.
- Geotechnical and geo-environmental laboratory testing.
- Provision of factual report and associated AGS (4.0) data.

3.3.3 2023 fieldworks

An intrusive ground investigation and subsequent monitoring of well installations was undertaken by Allied Exploration and Geotechnics Limited, on behalf of Costain Group, between 9th January and 7th March, with subsequent post-fieldwork monitoring and laboratory testing thereafter. This investigation comprised the online positions for the DCO design which were undertaken at night. One position, BHNO03A, was undertaken offline in the field immediately northwest of Simister Island Interchange.

The objectives of the intrusive ground investigation were to:

- Investigate data gaps in the ground conditions from previous investigations due to the new proposed layout, particularly areas where new retaining structures, gantries and modifications to existing earthworks are to be constructed.
- Investigate the existing reinforced earth slope on the M60/M62 eastbound carriageway.
- Inform ground model development and enable Eurocode-compliant geotechnical design.
- Determine geotechnical properties of materials encountered including strength and stiffness.
- Determine the presence of soil and/or groundwater contamination.
- Undertake a monitoring programme in BHNO03A to understand groundwater seasonal variations and the ground gas regimes within the study area.

The intrusive ground investigation comprised:

- 14No. cable percussive boreholes to depths of up to 40.00mBGL.
- 10No. windowless sample boreholes to depths of up to 7.45mBGL, six of which were advanced using cable percussive methods to depths of up to 8.00mBGL (WS02, WS03, WS04, WS08, WS09, WS10).
- 13No. hand excavated trial pits to depths of up to 1.40mBGL.
- Groundwater and ground gas installation of BHNO03A.
- Post-fieldwork groundwater and ground gas monitoring of BHNO03A.
- Geotechnical and geo-environmental laboratory testing.
- Provision of factual report and associated AGS (4.0) data.

5No. boreholes were cancelled during the investigation, the reasons for this were as follows:

- BH01 and BH15 were cancelled as the gantry is no longer required.
- BH09 was cancelled as the only safe position identified was very close to BH10.
- BH14 and BH16 were cancelled and deferred to stage 5 as there was no access to their location in the central reserve.

3.3.4 Ground Investigation Formalities

The ground investigations were designed by Jacobs, in accordance with the Institution of Civil Engineers (ICE) UK Specification for Ground Investigation, Second Edition (Environmental Scientifics Group & Association of Geotechnical and Geoenvironmental Specialists, 2012), following guidance outlined in the British Standards document BS 5930:2015+A1:2020 Code of Practice for Ground Investigations (British Standards Institution, 2020), BS EN 1997-2: 2017 Eurocode Part 2 – Ground Investigation and Testing (British Standards Institution, 2007), and BS 10175:2011+A2:2017 – Investigation of potentially contaminated sites – Code of practice (British Standards Institution, 2017).

Prior to conducting intrusive works, utility service plans were obtained, and buried service clearance was undertaken by a specialist utility surveyor, on behalf of the ground investigation contractor. As part of the buried service clearance, manhole covers were lifted, all exploratory hole locations were scanned using Electromagnetic Location (EML) tools, with exploratory hole locations on the motorways being additionally scanned using Ground Penetrating Radar (GPR). Buried service clearance certificates were provided to the rig supervisor thereafter. All borehole locations were hand dug to 1.20m depth, with regular downhole EML scanning, prior to mechanical drilling.

All borehole location positioned in hardstanding areas were cored using a concrete coring rig. Boreholes were backfilled with bentonite, reinstatement of the pavement was like for like and the top part of the hole was reinstated with tarmac.

Typically, exploratory holes located on the highway network were undertaken at night, with the aid of traffic management closures, whilst exploratory holes located off network were undertaken during the day.

It should be noted that due to health and safety concerns, the installation of gas and groundwater monitoring wells within the motorway network (i.e. hard shoulder) was not undertaken.

3.3.4.1 Sampling and in-situ testing

The exploratory holes were logged by an engineer in general accordance with the recommendations of BS 5930:2015+A1:2020 (British Standards Institution, 2020).

The soil sampling and analysis strategy was designed to characterise each encountered stratum, permit an assessment of potential contamination, and investigate the geotechnical characteristics. Furthermore, samples were taken to allow for geotechnical and geo-environmental testing to be carried out. Samples collected for laboratory analysis were placed in a variety of containers appropriate to the anticipated testing suite required. The samples were dispatched to the laboratory in cool boxes under chain of custody documentation. Samples were stored appropriately to maintain sample integrity, preservation and to minimise the chance of cross contamination.

Selected soil samples were subjected to headspace screening using a photo-ionisation detector (PID) to indicate the presence volatile organic compounds. Furthermore, the sides and bases of trial pits or bulk soil samples were subject to hand vane testing to determine in-situ shear strength, in accordance with BS EN 22476-9:2020 (British Standards Institution, 2020). Standard penetration

tests (SPTs) were undertaken at regular intervals within boreholes, to determine in-situ soil density, in accordance with BS EN ISO 22476-3:2005+A1:2011 (British Standards Institution, 2011).

3.4 Geophysical Survey

A geophysical survey was undertaken between the 2nd and 4th March 2022 by RSK Geosciences in the vicinity of attenuation pond 6 located at Whitefield. The geophysical techniques used during the survey included Electrical Resistivity Tomography, Frequency Domain Electromagnetics and magnetic gradiometry.

At this location, there are Coal Authority records of up to three mine entries (Coal Authority shaft IDs: 380404-001, 380404-002 and 380404-003). The aim of the survey was to provide certainty on the location of the mine entries, provide the mine entry dimensions and provide information or verification in relation to the treatment of the mine entries, particularly details of shaft caps, if any.

In April 2023, attenuation pond 6 was removed from the proposed scope. As the site is an outlier to the DCO design the geophysical survey that was undertaken here will not be discussed further in this GIR.

The geophysical survey is available through GDMS. The report No. is 45159.

3.5 Post-work monitoring programme

The monitoring well construction and associated response zones were installed to target groundwater tables, identified gas generation sources or migration pathways. Boreholes were installed with 19mm internal diameter (ID) standpipes to solely record resting groundwater levels. In contrast, boreholes installed with 50mm ID standpipes were designed to additionally enable the collection of groundwater samples and record ground gas parameters.

During the 2021 ground investigation, a total of 41No. 50mm groundwater and ground gas monitoring wells and 17No. 19mm groundwater monitoring wells were installed within the drilled boreholes across the site. During the 2022 ground investigation, 6No. 50mm groundwater and ground gas monitoring wells were installed within 4No. drilled boreholes across the site. For the 2023 ground investigation, a 50mm groundwater and ground gas monitoring well was installed within BHN03A.

All monitoring standpipes were developed in accordance with the British Standards document ISO 5667-11:2009 Water quality – Sampling – Part 11 Guidance on sampling groundwater (British Standards Institution, 2009). Development of the monitoring standpipes undertaken comprised the removal of at least three well volumes using a bailer or pump.

3.5.1 Ground gas monitoring

For the 2021 ground investigation, 4No. rounds of ground gas monitoring have been undertaken. For the 2022 ground investigation, 3No. rounds of ground gas monitoring have been undertaken. For the 2023 ground investigation, one round of ground gas monitoring has been undertaken. It should be noted that not all locations were monitored during each monitoring round and typically most monitoring wells were subjected to up to five monitoring visits, from 2021 to 2023.

The gas monitoring has provided data to support the refinement of the conceptual site model. A calibrated infrared gas meter was used to measure gas flow, concentrations of carbon dioxide, methane, and oxygen in percentage by volume, while hydrogen sulphide and carbon monoxide were recorded in parts per million. Initial and steady state concentrations were recorded. The atmospheric pressure before and during monitoring, together with the weather conditions, were recorded.

3.5.2 Groundwater monitoring and sampling

For the 2021 ground investigation, four rounds of groundwater monitoring were undertaken over a few days in August, September, January, and February. Depths to groundwater was recorded using an electronic dip meter on each return monitoring visit. An interface probe was used to record the depth to non-aqueous phase liquid (NAPL) during the first return monitoring visit, for a given monitoring well.

1No. round of groundwater sampling was carried out, with groundwater samples being retrieved using low flow purging and sampling methods. Water samples were dispatched to the laboratory in cool boxes under chain of custody documentation.

In May 2023 AEG undertook 1No. additional round of monitoring of the boreholes from the 2021 ground investigation.

For the 2022 and 2023 ground investigations groundwater monitoring and sampling was not required. However, BHNO03A, which was undertaken adjacent to BH-N03, drilled during the 2021 ground investigation and terminating on a recorded obstruction, had one round of groundwater monitoring and sampling undertaken.

3.6 Laboratory testing

Laboratory testing was undertaken at a UKAS accredited laboratory with ISO17025 and MCERTS accredited test methods (where applicable for contamination testing and as shown in the laboratory test certificates appended).

3.6.1 Geotechnical testing

Where appropriate disturbed, bulk, and undisturbed soil samples were taken for geotechnical classification testing with the depth and nature of samples detailed within the exploratory hole records.

Where appropriate, testing was undertaken in accordance with BS 1377:1990 Method of Tests for Soils for Civil Engineering Purposes or, where superseded, by the relevant part of BS EN ISO 17892:2014 Geotechnical investigation and testing - Laboratory Testing of Soil. Tests carried out to classify the concrete class required on-site have been undertaken following the procedures within BRE SD1:2005. Tests carried out to determine rock geotechnical parameters have been undertaken in accordance with IRSM 1974-2006 Part 1, Methods for Rock Characterisation.

The programme of geotechnical tests undertaken on samples obtained from the intrusive investigation is presented in Table 3-1.

Table 3-1 Summary of geotechnical testing undertaken

Tests undertaken	No. of tests
Atterberg Limits	473
Particle Size Distribution (PSD)	495
California Bearing Ratio (CBR)	8
Triaxial Tests- Total Stress	61
Triaxial Tests- Effective Stress	44
Consolidation tests	22

Tests undertaken	No. of tests
Compaction	49
Point Load	44
Shear Box	42
Uniaxial Compressive Strength	5

3.6.2 Geo-environmental testing

The programme of geo-environmental tests undertaken on soil samples obtained from the intrusive investigation is presented in Table 3-2.

Table 3-2 Summary of chemical testing of soil samples

Medium	Test undertaken	No. of tests
Soil	Suite 1 – Soil suite: Antimony, Arsenic, Barium, Beryllium, Boron (w/s), Cadmium, Chromium (III), Chromium (total), Hexavalent Chromium, Copper, Lead, Molybdenum, Mercury, Nickel, Selenium, Vanadium, Zinc, Total cyanide, Free Cyanide, pH, Asbestos Screen, and ID, TPH CWG plus BTEX and MTBE, speciated Phenols, PAH16, Soil Organic Matter.	179
	Petroleum Range Organics.	75
	Moisture content.	75
	Asbestos quantification.	10
	Total organic carbon.	13
Soil leachate	Suite 2 – Soil leachate suite: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (total), Chromium (III), Chromium (VI), Copper, Lead, Manganese, Mercury, Nickel, Selenium, Vanadium, Zinc, Iron, Cyanide (total and free), Thiocyanate, pH, Sulphate, Ammoniacal Nitrogen, Sodium, Magnesium, Potassium, Chloride, Speciated Phenols, PAH16, TPH CWG plus BTEX and MTBE.	63
	Aluminum, Sulphide.	43
<p>Notes:</p> <p>ID = Identification.</p> <p>TPH CWG = Total Petroleum Hydrocarbon Criteria Working Group.</p> <p>BTEX = Benzene, Toluene, Ethylbenzene and Xylene.</p> <p>MTBE = Methyl tert-butyl ether.</p> <p>PAH 16 = Polycyclic Aromatic Hydrocarbon with 16 speciated compounds.</p>		

During the ground investigations, a number of soil laboratory test deviations were recorded in respect to organic and inorganic compounds due to incorrect sample containers and test holding

times being exceeded. Extensive lists of soil geo-environmental tests that were reported as deviating during the laboratory testing programme are provided within the Annex D.

Groundwater and surface water samples were collected in containers appropriate to the anticipated testing suite required. The containers were filled to capacity and placed in a cool box to minimise volatilisation.

Chemical testing undertaken on water samples obtained during the monitoring programme is presented in Table 3-3.

Table 3-3 Summary of chemical testing of water samples

Sample type	Tests undertaken	No. of tests
Groundwater	Suite 3 – Groundwater: Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (total), Chromium (III), Chromium (VI), Copper, Lead, Manganese, Mercury, Nickel, Selenium, Vanadium, Zinc, Iron, Cyanide (total and free), Thiocyanate, pH, Sulphate, Total hardness as CaCO ₃ , Nitrate, Nitrate, Ammoniacal Nitrogen, Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), Sodium, Calcium, Magnesium, Potassium, Chloride, Dissolved Organic Carbon (DOC), Speciated Phenols, PAH16, TPH CWG plus BTEX and MTBE, and Electrical Conductivity.	31
	Aluminium, Sulphide.	29

Notes:

TPH CWG = Total Petroleum Hydrocarbon Criteria Working Group.

BTEX = Benzene, Toluene, Ethylbenzene and Xylene.

MTBE = Methyl tert-butyl ether.

PAH 16 = Polycyclic Aromatic Hydrocarbon with 16 speciated compounds.

During the groundwater sampling programme, a number of water laboratory test deviations were recorded in respect to inorganic compounds due to test holding times being exceeded. Lists of water geo-environmental tests that were reported as deviating during the laboratory testing programme are provided within the Annex D.

4. Ground summary

4.1 Topography

Simister Island is a 3-level interchange with the M60/M62 on the highest level and the M66/M60 on the lowest level, with a signal-controlled roundabout at mid-level. The surrounding roads approach the interchange on a mixture of cuttings and embankments depending on which level of the Island they are approaching.

- The East-West M60/M62 is located on embankment. West of Sandgate Overbridge the ground level is at 100mAOD and rises towards the east reaching 106mAOD at the interchange.
- The North-South M66/M60 is located in cutting. North of the interchange, the ground level is at 92mAOD.
- Simister Island circulatory is mostly at grade at 100mAOD.
- Slip roads earthworks are a mixture, connecting to at grade/ cutting/ embankment depending on the quadrant location and to which of the mainline carriageways they diverge/merge.

To the north of Simister Island interchange, the topography within the area is gently undulating, resulting in the M66 carriageways being located on a mixture of minor earthworks (<2.50m), low embankments and low cuttings. Located immediately between the northeast of Simister Island interchange and Egypt Lane there is a localised mound to a height of approximately 5m (100mAOD elevation), believed to have been formed from the material excavated out when the interchange was constructed.

In the west of the Scheme most of the M60 carriageway is on embankment. The earthworks extend to a maximum height of 6.50m on the eastbound carriageway and 8m on the westbound carriageway. At Whitefield the topography increases away from the M60 up through Whitefield Gold Club to 110mAOD.

To the south the approach to Simister Island interchange is in cutting. At the site of the M60 Landfill the topography has decreased away from the island to 90mAOD.

4.2 Discrepancies in the Mapped and Logged Deposits

4.2.1 BGS Mapped Outcrops

The exploratory holes revealed that the site is underlain by variable thicknesses of Made Ground over cohesive and granular glacial deposits, with the Pennine Coal Measures Formation encountered at depth. In some instances, it was identified that the mapped outcrops of the superficial deposits varied from the geological interpretation of the data obtained during the ground investigation.

Peat and Glaciofluvial Ice Contact Deposits are 2No. units where the extents encountered differ to those mapped. The coverage of the Glaciofluvial Ice Contact Deposits will be discussed in the relevant section below. 2No. outcrops of Peat are identified within the Scheme extents on BGS geological mapping, these are subsequently referred to as “mapped Peat”. During the ground investigation, within these mapping areas, material comprising Peat was encountered interbedded or alongside layers of soft clays and loose sands. Due to the variability in lateral and vertical extent of the materials, these layers have been named Alluvium - Peat, Alluvium - Cohesive and Alluvium – Granular. This naming is described in more detail in the relevant section below.

Hummocky Glacial Deposits, Glaciofluvial Deposits and Glaciolacustrine Deposits were typically encountered during the ground investigation in their mapped locations. Glacial Till was found underlying these units at depth. Although Head Deposits are mapped within the Scheme extents in the vicinity of Ponds 2 and 5, they were not encountered during the ground investigation.

4.2.2 Thickness of Engineered Fill

On review of all the ground investigation information it became apparent that there were discrepancies in the thickness of the Made Ground Engineered Fill between adjacent boreholes, phases of ground investigation and in comparison to the earthwork types and heights identified in the GDMS database.

Jacobs undertook a review of the historical mapping, Lidar data, aerial photography, earthwork details and historical reports relating to the various construction phases of Simister Island Interchange, the M60 and M66 carriageways on GDMS in order to determine original ground level at points along the route and the extents and levels of the earthworks as the site has evolved. Unfortunately, during this review, it has not been possible to determine the existing ground level of the M60 between Junction 17 and 18 due to limited contouring and spot heights on historical mapping and the unavailability of the original ground investigation that pre-dates the M60/M62 construction.

Once existing ground level had been established at points along the route, the borehole logs and descriptions were reviewed to ensure how they compared. The material descriptions and existing boundaries were taken into account when deciding on a revised boundary between the Made Ground Engineered Fill and the underlying stratum. It was noted that some of the descriptions for the Engineered Fill did not contain anything to differentiate the material from the underlying natural strata and therefore it is possible in these cases that the boundary could have easily been mistaken during drilling. In some cases, brick fragments were the only constituent to identify the material as Made Ground and it is possible some of these could have been incorporated from the layers above.

The table in Annex E gives an overview of the specific changes made to individual boreholes whilst correlating the man-made element of the ground model.

4.3 Geology

This section discusses the deposits identified during the ground investigation including compositions, depths and thicknesses. The descriptions of strata encountered, notes regarding visual or olfactory evidence of contamination, field observations of soil and groundwater, in-situ testing, and details of monitoring well installations are included on the exploratory hole records within the factual reports. Due to their size, the factual reports for the 3No. investigations are available separately through GDMS. The report ID Nos. are 45140, 45141 and 45142 for the 2021, 2022 and 2023 ground investigation respectively.

Table 4-1 gives a summary of the ground conditions encountered across the Scheme, with the strata discussed in subsequent subsections. Geological long sections through the Scheme are provided in Annex A.

Table 4-1 General succession of strata encountered

Stratum	Exploratory holes encountered	Depth to top of stratum (mBGL)	Proven thickness (m)
Superficial Deposits			
Topsoil	BH-G08B, BH-N02A, BH-N04A, BH-N09, BH-N10, BH-N16, BH-N20, BH-N21, BH-S05, CBR01, CBR02, WS101, WS103, WS-N03, WS-N04, WS-N04A, WS-N05, WS-N05A, WS-N06, WS-N06A, WS-N07, WS-N09, WS-P01, WS-P02, WS-P02A, WS-P03, WS-P03A, WS-P04, WS-P05, WS-P12, WS-P12A, WS-P12B, WS-S05	0.00	0.15-0.60
Made Ground	BH04, BH-N11, BH-N15, BH-P02, BH-P03, WS102, WS-N10, WS-N13, WS-N14, WS-P09	0-2.10	0.15-6.80
Made Ground-Northeast Mound	BH-N07, BH-N07OB, BH-N08, BH-N08A, BH-N08B, BH-N14, BH-N17, BH-N17OB, BH-N18, BH-N180B, BH-N19, WS-N12, WS-N12A, WS-N12B, WS-N12C	0.00	1.20-9.30
Made Ground-Northwest	WS-G08A, WS-N02B, WS-N16	0.00	3.00-4.70
Made Ground-Pulverised Fuel Ash	WS03, WS04, BH05, BH-S01, BH06, WS10, BH07, WS-S02, HDP03, HDP09	1.00-2.00	1.70-6.60
Made Ground-Engineered Fill	BH02, BH03, BH04, BH05, BH06, BH07, BH08, BH10, BH10A, BH11, BH12, BH13, BH-G01, BH-G01A, BH-G02, BH-G03A, BH-G04, BH-G06, BH-G07A, BH-G09, BH-G10, BH-G11, BH-N01, BH-N01A, BH-N02, BH-N03, BH-N05, BH-N06, BH-N06A, BH-N06B, BH-N06C, BH-N08A, BH-N12A, BH-N13, BH-N15, BHNO03A, BH-S01, BH-S02, BH-S03, BH-S04, BH-S04A, BH-S04B, BH-S06, BH-S07, HDP01, HDP02, HDP03, HDP04, HDP05, HDP06, HDP07, HDP08, HDP09, HDP10, HDP11, HDP12, HDP13, TP-N01, TP-N02, WS01, WS01A, WS02, WS03, WS04, WS05, WS06, WS07, WS08, WS09, WS10, WS-N01, WS-N02A, WS-N08, WS-N11, WS-N15, WS-S01, WS-S02, WS-S03, WS-S03A, WS-S04, WS-S06, WS-S06A	0.00-3.80	0.35-9.68
Alluvium – Peat/ Cohesive/ Granular	BH07, BH-N03, BHNO03A, BH-G08B, WS-N13, WS-P03, WS-P03A, WS-P04, WS-P05, WS-P12B, BH-G03A, BH-N07, BH-N09, BH-N10, BH-N11, BH-N19, BH-N20, BH-N21, WS-N04, WS-N04A, WS-N05, WS-N05A, WS-N06, WS-N06A, WS-N09, WS-P01, BH-G06, WS-P06	0.00-10.70	0.20-6.40
Glaciolacustrine Deposits	BH-N02A	0.40	3.20
Hummocky Glacial Deposits	BH-G09, BH-G10, BH-S05, BH13, WS09	0.40-4.50	0.21-4.80
Glaciofluvial Deposits	BH-G03A, BH-G11, BH-N15, WS-N07, WS-N08	0.35-6.80	3.70-4.50

Stratum	Exploratory holes encountered	Depth to top of stratum (mBGL)	Proven thickness (m)
Glaciofluvial Ice Contact Deposits	BH-G08B, BH-N04, BH-N04A, BH-N06, BH-N06C, BH-N08A, BH-N08B, BH-N10, BH-N11, BH-N12A, BH-N13, BH-N14, BH-N16, BH-N17, BH-N19, BH-N20, BH-N21, BHNO03A, CBR01, CBR02, WS-G08A, WS-N02B, WS-N03, WS-N05, WS-N06, WS-N06A, WS-N10, WS-N11, WS-N13, WS-N14, WS-N15, WS-N16, WS-P02, WS-P02A, WS-P03, WS-P04, WS-P05	0.00-9.30	0.20-17.40
Glacial Till	BH02, BH03, BH04, BH05, BH06, BH07, BH08, BH10A, BH11, BH12, BH13, BH-G01, BH-G02, BH-G03A, BH-G04, BH-G06, BH-G09, BH-G10, BH-G11, BH-N01, BH-N01A, BH-N02A, BH-N04, BH-N04A, BH-N05, BH-N05A, BH-N06, BH-N06C, BH-N07, BH-N08B, BH-N09, BH-N10, BH-N11, BH-N12A, BH-N13, BH-N14, BH-N17, BH-N18, BH-N19, BH-N20, BH-N21, BH-P02, BH-P03, BH-S01, BH-S02, BH-S03, BH-S04, BH-S04A, BH-S04B, BH-S05, BH-S06, BH-S07, WS01A, WS02, WS03, WS04, WS05, WS06, WS07, WS08, WS09, WS101, WS102, WS103, WS-N02B, WS-N04, WS-N04A, WS-N05, WS-N05A, WS-N09, WS-N15, WS-N16, WS-P01, WS-P05, WS-P06, WS-P09, WS-S04, WS-S05, WS-S06A	0.30-19.30	8.30-32.00
Solid Geology			
Pennine Coal Measures	BH-G01, BH-G02, BH-G10, BH-N05A, BH-N06C, BH-N10, BH-N11, BH-N20	24.50-37.50	N/A (>15.50)

4.3.1 Topsoil

Topsoil encountered during the ground investigation was typical to 3No. locations. Topsoil was identified:

- In boreholes located northeast of Simister Island interchange associated with the investigation undertaken for attenuation pond 1 and 2, 17No. boreholes identified Topsoil with thicknesses between 0.25 to 0.40m, the larger thicknesses were typically identified boreholes overlying Alluvium - Peat/ Cohesive/ Granular. The Topsoil typically comprised grass over dark brown, silty, gravelly, fine and medium SAND with occasional rootlets. Gravel is fine to coarse, angular to subrounded and includes sandstone and mudstone. Topsoil comprising very soft to soft, dark brown, sandy organic SILT was identified above Alluvium – Peat/ Cohesive/ Granular.
- In 13No. boreholes undertaken north of the M60 highway associated with the new link road embankment and attenuation pond 7. The Topsoil was between 0.15 to 0.60m thick comprising grass over very soft to soft, black mottled dark grey, slightly sandy CLAY.
- 3No. boreholes identified Topsoil in the fields immediately southwest of Simister Island interchange. The topsoil was between 0.35 to 0.40m thick comprising soft, dark brown, very sandy organic SILT and grass over black brown, clayey, slightly gravelly, fine and medium SAND. Gravel is fine to coarse angular to subrounded and includes sandstone and mudstone.

4.3.2 Made Ground

5No. types of Made Ground were identified during the ground investigation and are described as follows:

- Made Ground- typically identified in boreholes located off network in the surrounding fields, with a granular and a cohesive component.
- Made Ground- Northeast Mound- identified in boreholes immediately north of Simister Island interchange where, it is anticipated that, spoil from cuttings on the M66 has been placed forming a mound on completion of the viaduct and interchange construction.
- Made Ground- Northwest- identified in boreholes located off network to the northwest of Simister Island interchange.
- Made Ground- Pulverised Fuel Ash- identified in boreholes located in the M60/M62 embankment constructed with PFA.
- Made Ground- Engineered Fill- identified in boreholes located on the network and is the main component of the engineered earthworks, with a granular and a cohesive component.

An overview of each material type and their location is described in the following sections.

4.3.2.1 Made Ground- Cohesive & Granular

Made Ground was identified in the boreholes undertaken for 2No. attenuation ponds.

At attenuation pond 2, located east of the M66, opposite the village of Unsworth and north of Pike Fold Golf Club, Made Ground was identified in WS102. 1.50m of Cohesive Made Ground was encountered at a ground level of 90.78mAOD including 0.30m of Topsoil overlying 1.20m of firm dark brown sandy slightly gravelly clay, with gravel containing brick.

Made Ground was also identified at attenuation pond 5, located southwest of Simister Island Interchange, in the land between the M60/M62 carriageway and Heywood Road, at the location of the landfill site 2 previously discussed in Section 2.7.2. The landfill was known to contain inert material from adjacent motorway construction arisings. Made Ground was encountered in all 3No. boreholes (BH-P02, BH-P03 and WS-P09) from ground level for thicknesses between 1.70 to 2.80m at levels between 95.16 to 96.52mAOD. The Made Ground was described as soft to firm, dark brown, slightly sandy, slightly gravelly CLAY. Gravel was subangular to subrounded mixed lithologies of sandstone, flint, mudstone, concrete, coal, limestone and brick. WS-P09 also identified sand underlying a clay layer. The material was described as medium dense brown, gravelly, clayey, very silty, fine to coarse SAND. Gravel was subangular to subrounded including sandstone, mudstone, limestone, flint, brick and concrete.

Scattered boreholes identified thin and shallow Made Ground in the fields bordering the motorways to the northwest of Simister Island interchange and the north of the mound. The material typically contained fragments of brick and pottery.

BH-N15 located, 50m east of the highway boundary identified slag and brick between 0.00m to 0.25m and sand containing ash in 2No. layers down to 6.80m bgl. Historical mapping showed a gravel pit immediately south of Hills North, 170m north of BH-N15. It is possible that material associated with the infilling of the pit was also placed in the surrounding area and this has been identified in BH-N15.

4.3.2.2 Made Ground- Northeast Mound

15No. boreholes were undertaken in the mound located north of Simister Island interchange. The mound is understood to have been formed from material excavated during the construction of the cutting to the M66 carriageways at the interchange. The material was encountered from ground level. 7No. boreholes reached the base of the mound and the underlying natural strata with thicknesses ranging between 1.20 and 9.30m. Lidar data indicates the existing ground level in this location is between 92.00 to 96.00mAOD prior to the material being placed here. The base level of some of the fill material reached levels between 91.99 to 102.65m, which roughly ties in with the base levels indicated from the available information.

The material typically comprises dark brown, silty, fine and medium SAND. Some of the material is described as loose and medium dense and some is gravelly comprising angular to subrounded brick, concrete and mixed lithologies. There was also a lesser amount of firm brown slightly sandy, slightly gravelly CLAY. Gravel was angular to subrounded including brick, concrete, timber, metal pieces, sandstone and mudstone. Some of the material was described as soft and stiff and had a low cobble content.

At the site of the M66 cuttings, the natural material would be the Glaciofluvial Ice Contact Deposits which typically comprises a loose to medium dense, brown yellow, slightly gravelly, slightly clayey, slightly silty, fine to coarse SAND. This material gives a similar composition description to the boreholes undertaken for the mound and indicates it is likely the same material. The additional anthropomorphic material could be interpreted as possible demolition material from Leaches farm which was identified on historical mapping immediately north of the interchange prior to construction of the M66 carriageway.

4.3.2.3 Made Ground- Northwest

3No. boreholes all located northwest of Simister Island interchange identified material that differed from the adjacent boreholes. The boreholes are all located in the fields northwest of the motorway in what appears to be the embankment for the carriageway. However due to the descriptions of the material: low SPT N values indicating loose and unconsolidated fill and gravel comprising brick and granite, indicate it is unlikely this material is engineered fill. The material is believed to have been placed over the structural fill comprising the slopes of the highway embankment, potentially for landscaping or re-use of site-won material from the construction of the carriageways and junction.

The material is described as follows:

- WS-N02B describes very loose sand with brick gravel between 0.00 to 3.50m with an SPT N value of 0 at 1.20m
- WS-G08A describes very soft to soft clay with brick and granite gravel. The material has SPT N values of 1 and 2 at 3.00m and 4.00m respectively.
- WS-N16 describes soft silt containing brick from 0.00 to 3.00m with SPT N values of 4 and 3 at 1.20m and 2.00m respectively.

4.3.2.4 Made Ground- Pulverised Fuel Ash

Pulverised Fuel Ash (PFA) was identified in a number of boreholes between Sandgate Road overbridge and Haweswater underpass as a construction material for the motorway embankments.

10No. Boreholes identified PFA within some portion of Made Ground. BH-S01, WS-S02, BH06, BH07 and WS10 identified thickness of PFA between 4.45 to 8.80m at levels between 97.96 to

99.82mAOD. The PFA is described as medium dense to dense, grey, silty, clayey, slightly gravelly SAND. Sand is fine to medium. Gravel is fine to medium angular to subangular and includes sandstone and mudstone. In BH-S01 and WS-S02 the material was described as soft to firm grey slightly gravelly sandy SILT. Gravel is subangular to rounded, fine to coarse including sandstone. The sand was described as PFA. The base of the unit was not proved in WS10.

The remainder of the PFA identified was within layers of Made Ground that were described as having a low content of PFA. These thicknesses were between 0.30 to 2.40m in WS03, WS04, HDP03 and HDP09 at levels between 95.84 to 97.57mAOD.

The PSSR states that PFA was identified in historical borehole logs SD80NW270 and SD80NW259 at approximate Ch 2100. Possible PFA was identified in historical borehole logs SD80NW258 and SD80NW269 at approximate Ch. 2300. The large thicknesses of PFA identified during the recent ground investigation were located between approximate Ch. 2200 to 2330, and the boreholes that contained a low content of PFA were identified over a larger area between approximate Ch. 2000 to 2350. These findings correlate with the locations originally identified in the historical ground investigation.

BH-S04 and BH-S04A also identified a low content of fuel ash as part of stiff CLAY and medium dense SAND layers. However due to their location at approximate Ch. 2700 it is unlikely that this material was used for embankment construction here and is more likely to just be a component of the Made Ground.

Peat is shown on BGS mapping between approximate Ch 1900 to 2500, and due to the similar extents at which the PFA was identified during the ground investigation it is our interpretation that the PFA was used to construct the embankments in this area.

4.3.2.5 Made Ground Engineered Fill

Made Ground Engineered Fill was identified across the majority of the Scheme at varying depths dependent upon the local earthwork heights. The term 'engineered fill' in this report is being used to describe the material comprising the highway embankments, fill in relation to structures and excludes any material outside of the highway boundary. The fill has been split into a granular and a cohesive component. The granular portion of this unit also comprises asphalt, tarmacadam and concrete associated with the boreholes undertaken on the existing M66/M62/M60 carriageways.

4.3.2.5.1 Asphalt, tarmacadam and concrete

The 2023 ground investigation identified 23No. boreholes containing black macadam to depths between 0.34 to 0.50m. BH10 encountered strong grey concrete at depths between 1.30 to 1.50m (95.31 to 95.11mAOD) and WS02 encountered concrete fill at depths between 1.50 to 2.50m.

The 2021 ground investigation logged the material slightly differently and individual and sometimes combined layers of asphalt, tarmacadam and concrete were logged in 31No. boreholes to depths between 0.15 to 0.58mBGL.

4.3.2.5.2 Engineered Fill Composition

Across the Scheme the Made Ground Engineered Fill was typically found to be consistent. Gravel was identified immediately below tarmac and asphalt where boreholes had been undertaken on the hard shoulder of the corresponding M60, M62 and M66. This material was typically described as grey, slightly sandy, slightly silty fine to coarse GRAVEL. Gravel was noted to be angular to subangular, fine to coarse limestone, sandstone, quartzite and mudstone. The 2022 investigation undertaken by AEG typically described 2No. gravel layers, a light grey layer underlain by a brown.

These gravel layers are typically between 1.00 to 2.00m thick and comprise the road construction sub-base.

The following material is the main structural embankment. Underlying the gravel sub-base in the east of the Scheme and comprising the majority of the engineered fill across the Scheme is a medium dense to very dense brown, slightly gravelly, clayey, fine to coarse SAND. Gravel was noted to be angular to subangular, fine to coarse mixed lithologies including sandstone, mudstone, siltstone and limestone.

There are layers of soft to stiff, brown, slightly gravelly, sandy, CLAY with a low cobble content, throughout the Made Ground Engineered Fill in the east of the Scheme making up a small cohesive component. Additional gravel layers underlying the main embankment fill have been encountered intermittently during the 2023 ground investigation. This gravel layer is further discussed in subsection 4.2.3.5.3 below.

Interestingly BH-G06 also mentions clay interbedded with Peat within the engineered fill between 1.00 to 1.80m (100.86 to 100.06mAOD). There is some uncertainty towards the original ground level however from the analysis undertaken it was initially indicated to be lower than this. Organic matter tests were scheduled at 1.20m and gave a result of 2.4%, indicating it is possible that the logging is incorrect at this location. The occurrence of the Peat appears to be an anomaly and is not consistent with other boreholes nearby.

Overall, engineered fill was encountered in 82No. boreholes at depths between ground level and 3.80mBGL (91.68 to 105.27mAOD) for thicknesses of between 0.14 to 9.68m.

4.3.2.5.3 Possible Starter Layer

There is evidence in some boreholes for a possible starter layer comprising gravel at the base of engineered fill for embankments. This gravel starter layer has been identified in boreholes that both contain and do not contain PFA. This layer is typically present in the chainage range where Peat appears to have been excavated along the mainline carriageway between Ch. 1900 to 2200, as the deposit is shown on BGS mapping between approximate Ch 1900 to 2500 however it was not encountered during the ground investigation. PFA, however, was identified over a slightly different range between Ch. 2000 to 2350.

During the ground investigation a medium to very dense grey clayey sandy GRAVEL layer was identified in 8No. boreholes (WS02, WS03, WS04, WS09, BH05, BH06, BH13 and BH-S01). The layer was identified at depths between 2.50 to 8.10m (91.56 to 97.34mAOD) underlying engineered fill and PFA. The material thickness ranged between 1.40 to 2.70m. This layer was identified at a level just below the original ground surface which further supports the assumption that shallow Peat was excavated and prior to the construction of the embankment, some of which was constructed using PFA, this gravel starter layer was laid down.

Some of the boreholes within the wider chainage range do not reach the base of the PFA and hence would not have encountered the gravel layer, so it possible that it is present over a larger area.

4.3.2.5.4 Geotextile

13No. HDP were undertaken to identify the geotextile layer present within the highway earthwork supporting the eastbound carriageway of the M60. 7No. HDP identified the geotextile (HDP01, HDP02, HDP04, HDP05, HDP10, HDP12, HDP13) typically between 0.50 to 1.20mBGL (97.65 to 99.88mAOD). The material overlying the geotextile was Made Ground Engineered Fill Cohesive

typically comprising 'soft to firm grey brown gravelly clay with low cobble content. Gravel is fine to coarse angular to subangular and includes brick, mudstone and sandstone. Cobbles are angular to subrounded and include brick and sandstone.'

The geotextile was also identified in the 2021 investigation in TP-N01 at 0.90m and in BH-N02 at 0.40m, 0.80m and 2.00m in Made Ground Engineered Fill Cohesive at levels between 101.33 to 102.96mAOD. The holes then continued. The holes are located at approximate Ch. 2370 and 2520 respectively.

The geotextile in the 2021 investigation was found at increased levels compared to the geotextile identified within the hand dug pits. These difference in levels indicates the multiple layers identified could be indicative of a topsoil retention layer and a deeper layer of geotextile.

The PSSR refers to 2No. earthwork defect observations (10_M60_28366_402433 and 10_M60_28366_402434) located within earthwork 10_M60_28366 at approximate Ch. 2170 and Ch. 2270 respectively. During the investigation the geotextile was identified at approximate Ch. 2160 to 2520 which correlates with the locations originally identified for inspection.

A review of GDMS has not provided any insight as to why and when the geotextile was installed. It is likely associated with modifications to the earthworks to accommodate the widening of the M60/M62 Junction 17 eastbound exit slip road.

4.3.3 Alluvium – Peat/ Cohesive/ Granular

During the ground investigation material comprising very soft to firm clays and loose to medium dense sands was found in amongst layers of Peat described as spongy, dark brown fibrous and pseudo-fibrous PEAT. The cohesive and granular layers, occasionally described as containing "organic matter or content", were found at similar levels to where Peat had been found in neighbouring boreholes. Due to the variability in lateral and vertical extent and generally interbedded nature of the encountered layers, the materials have been grouped together as Alluvium– Peat/ Cohesive/ Granular.

The following types of deposit have been characterised as Alluvium – Peat/ Cohesive/ Granular:

- Alluvium - Peat: containing the Peat described above.
- Alluvium - Granular layers: contains the granular layers described above including layers of sand that contain pockets of 'Peat' or a 'peaty' component.
- Alluvium - Cohesive: contains the cohesive layers described above including layers of clay that contains pockets of 'Peat' or a 'peaty' component.

Alluvium - Peat/ Cohesive/ Granular was identified in 3No. locations across the Scheme. The first location and largest by area was encountered to the northeast of Simister Island interchange adjacent to Egypt Lane. The ground investigation identified Alluvium - Peat/ Cohesive/ Granular but the extents of the deposit were found to be located further to the south and the west of the mapped boundary. At this locality Alluvium- Peat/ Cohesive/ Granular was identified in 16No. boreholes close to the location of attenuation pond 1. The Alluvium – Peat/ Cohesive/ Granular was typically found from ground level to a maximum depth of 6.80m overlying Glacial Ice Contact Deposits.

There are 5No. boreholes in this area of Alluvium – Peat/ Cohesive/ Granular that beneath topsoil typically contain alternating layers of clay, sand and silt typically overlying a layer of interbedded silt/clay and sand. These layers are described as thinly laminated and perhaps indicate this area was on the edge of the waterbody when the material was deposited.

The second “mapped Peat” outcrop, located on the alignment of the M60, west of Simister Island interchange between Ch. 1900 and 2450, and in the immediate land to the north. The ground investigation did not identify this outcrop however, Alluvium – Peat/ Cohesive/ Granular was identified in the boreholes undertaken to the east of the mapped area, for attenuation pond 7. This indicates the boundary of this outcrop may have extended further east initially. The presence and elevation of the granular starter layer mentioned previously in subsection 4.3.2.5.3 also supports the assumption that the mapped Peat here was dug out during the construction of the M60 motorway. At this locality Alluvium – Peat/ Cohesive/ Granular was identified in 10No. boreholes, typically from ground level to a maximum depth of 10.90m overlying Glacial Ice Contact Deposits.

Additionally, this mapped outcrop of Peat is adjacent to a mapped outcrop of Glaciolacustrine Deposits. Glaciolacustrine Deposits can sometimes contain organic matter and be interbedded with Peat. Due to a low number of exploratory holes undertaken within the mapped extents of the Glaciolacustrine Deposits and the Peat deposits in this location missing laminations, we have classified material containing organic matter as Alluvium – Peat/ Cohesive/ Granular to constrain the extents of the material. A consequence of this however is that there is potentially a reduced amount of Glaciolacustrine Deposits identified during the ground investigation.

Alluvium – Peat/ Cohesive/ Granular was identified in a third outcrop not shown on BGS mapping to the south of the M60 motorway at Ch. 2640. BH-G06 identified frequent pockets of Peat at 96.26mAOD to 95.56mAOD underneath the engineered fill forming the highway embankment. WS-P06, located 40m to the south of BH-G06 and beyond the footprint of the highway embankment, contained organic material and content from ground level at 94.90mAOD to 93.50mAOD. Lidar data of the site shows WS-P06 is located within a low spot, with ground levels rising towards the north beyond BH-G06. It is therefore anticipated the organic material encountered in BH-G06 is consistent with the pre-construction ground level beneath the highway embankment. It is possible the organic material identified at BH-G06 should have been removed as part of the embankment construction, but its removal has been omitted in this area for an unknown reason.

4.3.3.1 BH-N03/ BHNO03A

During the 2021 ground investigation, a void was reported on the drillers log in BH-N03 below Made Ground Engineered Fill at depths between 8.00 to 8.60mBGL (92.08 to 91.48mAOD) immediately north of the M60 eastbound slip road at Junction 17. No material was returned between 8.60 to 9.00mBGL and the borehole was terminated at 9.00mBGL (91.08mAOD). There were 4No. neighbouring boreholes that all encountered slightly different geological profiles. Neighboring boreholes WS-N02A and WS-N02B, located 50m southwest, have Made Ground Engineered Fill to depths between 5.88 to 6.30m (93.74 to 97.54mAOD). WS-P12, located 60m north, contains 8.00m of Alluvium - Peat/ Cohesive to 87.53mAOD, and WS-N13, located 60m northeast, comprises Made Ground to 1.40mBGL (94.45mAOD), Alluvium - Peat to 2.80m (93.05mAOD) over Glaciofluvial Ice Contact Deposits to 6.45m (89.40mAOD). Only 2No. of these boreholes were undertaken to depths greater than that at which the suspected void was encountered, and both these boreholes indicate the strata at this depth was natural ground, WS-P12 in Alluvium - Peat/ Cohesive and WS-N13 in Glaciofluvial Ice Contact Deposits.

This location was subsequently reinvestigated as part of the 2023 ground investigation by BHNO03A, undertaken adjacent to BH-N03. BHNO03A identified Made Ground to 3.10m (96.49mAOD) overlying soft to firm clay and loose to medium dense sand (to 94.09 and 92.39mAOD respectively). Alluvium - Peat to 91.49mAOD overlying dense gravel to 90.39mAOD was identified below. At the depth of the void recorded in BH-N03, BHNO03A identified the base of the loose to medium dense sand layer and the entirety of the Alluvium - Peat layer. The stratum

identified in BHNO03A indicates it is likely the void identified in BH-N03 was a very soft layer of Alluvium - Peat and this material was not identified by the drillers during the hole construction.

4.3.4 Glaciolacustrine Deposits

Glaciolacustrine Deposits are mapped in the area northwest of Simister Island interchange encompassing the land north of the M60 motorway at approximate Ch 2450. BH-N02A was the only exploratory hole undertaken in the area where Glaciolacustrine Deposits were mapped. Underlying topsoil at 0.40mBGL (93.82mAOD) was a 3.20m thick layer of soft and firm, grey, slightly sandy, silty CLAY. Local impersistent laminations were present at 1.20mBGL (93.02mAOD) for a thickness of 2.40m. This is the only investigation in this vicinity which has laminations at a shallow depth which could be indicative of the Glaciolacustrine Deposits.

As previously mentioned in subsection 4.3.3 due to the abundance of Alluvium – Peat/ Cohesive/ Granular that was encountered beyond the “mapped Peat” extents it is possible that Glaciolacustrine Deposits were identified during the ground investigation but due to the similarities of the depositional nature of Alluvium –Cohesive and Glaciolacustrine Deposits, the deposits may have been grouped as the Alluvium - Cohesive Deposits.

4.3.5 Hummocky Glacial Deposits

Hummocky Glacial Deposits have been identified in 3No. locations across the Scheme, from 2No. mapped outcrops.

The first is in 2No. boreholes (BH-G09 and BH-G10) on the M66 north from Simister Island interchange in an area of mapped Hummocky Glacial Deposits. The boreholes are located 2.3km and 1.5km north from the interchange respectively. The material was typically found underlying Made Ground and overlying Glacial Till, at depths between 0.74 to 1.90mBGL (93.81 to 94.25mAOD), with a thickness of 0.21 to 2.00m. BH-G10 identified a 0.30m layer of firm sandy CLAY overlying 1.70m of medium dense becoming very dense, grey, clayey, fine to coarse SAND. BH-G09 identified 0.21m of angular to subangular, fine to coarse gravel including sandstone, limestone, flint and mixed lithologies.

Hummocky Glacial Deposits were also identified in the southwestern quadrant of Simister Island interchange in an area of mapped Hummocky Glacial Deposits in BH-S05. The deposits were encountered below Topsoil between 0.40 to 5.20m (106.32 to 101.52mAOD) and comprised loose, light orangish brown, slightly gravelly, slightly silty, fine to coarse SAND with frequent soft, clay bands. Gravel is subangular to subrounded, fine to coarse including sandstone.

Approximately 850m to the northwest of Simister Island Interchange, along the M60/M62 carriageway, BH13 and WS09 identified a medium dense gravel layer that contained cobbles. The gravel was identified below Made Ground- Engineered Fill at depths of 2.90 to 3.00m (96.94 to 97.34mAOD) for a thickness of 1.50 to 2.50m. This outcrop of Hummocky Glacial Deposits is just outside the mapped extents of the outcrop described in the above paragraph.

4.3.6 Glaciofluvial Deposits

There are multiple outcrops of Glaciofluvial Deposits within the Scheme boundary. There were 2No. outcrops that were identified during the ground investigation. The first is located on the M60 to the west of Simister Island interchange, at the proposed location of attenuation pond 6 at Philips Park. This pond has been removed from the project scope and hence the ground investigation undertaken here will not be discussed further.

The second outcrop is located on the M66 750m north of Simister Island interchange, covering the area 250m south of Hills Lane. 4No. boreholes (BH-G03A, BH-G11, WS-N07 and WS-N08) encountered the deposits at depths between 0.35 to 2.50mBGL (90.83 to 93.64mAOD) below Made Ground Engineered Fill, Alluvium – Peat/ Cohesive/ Granular and Topsoil and above Glacial Till. BH-N15 also encountered the material, but at a much greater depth of 6.80mBGL (92.78mAOD) due to a large thickness of overlying Made Ground. Thicknesses were between 2.80 to 5.65m, with the base of the unit only proven in the deeper boreholes, BH-G03A and BH-G11. The Glaciofluvial Deposits were typically described as loose to medium dense, brown, clayey, silty, slightly gravelly fine to coarse SAND. A 1.20m gravel layer was identified in BH-G03A at 5.00m described as loose very sandy silty GRAVEL comprising subangular to subrounded, fine including quartz, mudstone, sandstone and siltstone. A 0.35m layer of firm slightly gravelly, slightly sandy SILT was identified in WS-N08 within sand layers.

4.3.7 Glaciofluvial Ice Contact Deposits

Glaciofluvial Ice Contact Deposits are mapped to the immediate northwest of Simister Island interchange. The mapped deposits extend from Ch. 500 to 800 on the new link road embankment, and from Ch. 1400 to 1700 on the northbound M66. However, the 2021 ground investigation identified a much larger extent. In the northwest the deposits were found to be present from Ch. 100 on the new link road embankment and spread north of the M60 into the boreholes undertaken for attenuation pond 7. This extends the mapped coverage from its current location along Mode Hill Lane south to the M60 carriageway. Northeast of Simister Island interchange the deposits were found to extend to the east of the M66 and were identified in the boreholes undertaken for the northern loop. They were also identified on the northbound carriageway of the M66 up to Ch 1900.

The Glaciofluvial Ice Contact Deposits identified across the site were encountered as typically entire swathes of granular material overlying cohesive Glacial Till. It is possible at interfaces with the granular portions of the Glacial Till that the material could be categorised as either deposit, as it is difficult to differentiate between the 2No. types of granular glacial material.

The material encountered typically comprised loose to medium dense, brown yellow, slightly gravelly, slightly clayey, slightly silty, fine to coarse SAND. Gravel is subangular to rounded, fine to coarse including sandstone, mudstone and limestone. Throughout the borehole logs there are also scattered layers of loose to medium dense, brownish yellow, very sandy, silty GRAVEL with a low cobble content. Gravel was described as angular to subangular, fine to coarse including sandstone, limestone and mixed lithologies. Cobbles are subrounded including sandstone and mudstone. Throughout the deposits there is also a minor cohesive component identified in 6No. boreholes, which typically comprises soft to stiff, brown, slightly gravelly, sandy CLAY. The gravel is subrounded to rounded, fine to coarse including mudstone, sandstone, quartz and occasional coal. Some of the clay layers have occasional sand bands, highlighting the overall granular nature of these deposits. These clay layers are between 0.70 to 2.10m thick but are all underlain by significant thickness of granular material. A 0.20m clay lens was identified in BH-G08A.

Overall, the Glaciofluvial Ice Contact Deposits were encountered in 37No. boreholes at depths between ground level and 9.30mBGL (85.12 to 101.64mAOD) for thicknesses of between 0.20 to 17.40m. The deposits were typically found underlying Made Ground, Alluvium – Peat/ Cohesive/ Granular and in a couple of boreholes in the north of the M60/M62 carriageway from ground level.

4.3.8 Glacial Till

Glacial Till is found at depth across the entire site extents. It is typically found underlying Made Ground Engineered Fill along the M60 corridor west and south of Junction 18, and then underlying the various glacial deposits, Alluvium – Peat/ Cohesive/ Granular and Head deposits across the remainder of the site.

The majority of the unit comprises cohesive layers of great thickness that extend down to bedrock. The base of the unit was proven in 8No. boreholes giving a unit thickness between 8.30 to 32.00m. The larger thicknesses were proven in the boreholes undertaken on the M66 north of Hills Lane and Pike Fold Golf Club and at Simister Island Interchange. The smaller thicknesses were identified in boreholes undertaken immediately north of Simister Island Interchange that include the Glaciofluvial Ice Contact Deposits overlying the Glacial Till.

Although typically cohesive in its nature the Glacial Till encountered here has a large granular component. There are sand bands of varying thicknesses encountered between layers of cohesive strata. Gravel layers, although minimal, have also been encountered. Review of Particle Size Distribution (PSD) testing has also indicated that the material is often borderline containing roughly equal percentages of cohesive and granular components. Subsequently, to allow for reporting and for appropriate design parameters to be derived, the material has been divided in a cohesive and a granular component. The variation between granular and cohesive shown within this unit further indicates the variability of glacial deposits.

As part of the ground model development, an assessment of the correlation between boreholes of the depth and thickness of the granular layers was undertaken. However there does not appear to be an obvious pattern that fits across the entirety of the site. There are however groupings of boreholes that show local similarity. For example:

- Between Junction 17 and Junction 18 of the M60 Glacial Till is found underlying Made Ground Engineered Fill. The typical sequence within the till comprises alternating layers of sand and clay with no pattern between boreholes. Typically, at depth there are thick cohesive layers.
- In the boreholes southeast of Simister Island interchange the Glacial Till is found underlying Made Ground Engineered Fill. The till is typically cohesive with minimal granular layers identified.
- North of Simister Island interchange along the M66 the expected geological sequence is Hummocky Deposits overlying Glacial Till. Made Ground and thin granular layers were identified at the surface which were assigned as the Hummocky Deposits. Underlying these units 4No. boreholes (BH-G01, BH-G02, BH-G09 and BH-G10) encountered a layer of firm clay overlying a granular layer overlying stiff clay. This consistent granular layer appears to have tapered out of the deposits towards the south and at Simister Island interchange and is not identified in other boreholes across the Scheme. This consistent cohesive/ granular/ cohesive profile only appears in these 4No. adjacent boreholes.

The cohesive component of the Glacial Till typically comprises firm to very stiff, brown grey slightly sandy, slightly gravelly, silty CLAY. Gravel is subangular to rounded, fine and medium including sandstone, mudstone and siltstone. There is some shallow soft to firm material identified which is a likely weathered upper horizon due the interaction of this material with the overlying superficial and Made Ground deposits. There are soft layers of Glacial Till identified at depth, and the 2021 ground investigation found that these soft layers were adjacent to sand layers. Possibly indicating groundwater flow through the sand had softened the surrounding material. However, the 2023 ground investigation identified thick soft to firm layers at depth that were adjacent to clay and sand

layers. The layer in BH03 was between 1.90 to 10.00mBGL (96.62 to 88.52mAOD) before the hole was terminated, and the layer in BH13 was at 11 to 28.40mBGL (89.34 to 71.94mAOD).

The granular component of the Glacial Till is typically described as loose to medium dense, brown, slightly gravelly, slightly silty, fine to coarse SAND. Gravel is subangular to subrounded, fine to coarse including sandstone, limestone, mudstone and siltstone.

There were also isolated occurrences of medium dense to dense, yellow brown, very sandy GRAVEL with a low cobble content. Gravel is subangular to subrounded, fine to coarse including mudstone, sandstone, coal and mixed metamorphic lithologies. Cobbles are subrounded including mudstone, sandstone and metamorphic lithologies. The gravel layers were identified in 9No. boreholes with thicknesses of 0.20 to 4.75m and are most likely layers that taper in and out in the deposit.

WS-N04A located northeast of Simister Island interchange, obtained no recovery within Glacial Till for 1.55m at 8.45mBGL (83.34 to 81.79mAOD). The overlying and underlying material comprised cohesive Glacial Till, however the underlying material was only investigated with a SPT. It possible this could be a soft zone within the Glacial Till as the unit was encountered from 2.20mBGL and is therefore not a shallow soft zone. No surrounding boreholes encountered this soft layer.

In WS08 no recovery was recorded between 3.30 to 4.00mBGL. There are no indications as to what could have caused this as the material either side shows competent SPT N values.

BH04 identified very loose sand at depths between 4.80 to 8.10mBGL (90.72 to 94.02mAOD) with a note that the automatic trip hammer tool sank under its own weight at 5.20mBGL. 3No. SPT N values of 0 were obtained at 5.20m, 6.20m and 7.20m. A groundwater strike was not identified in the borehole, however the log indicates standing water at 5mBGL (93.82mAOD). Adjacent WS07 identified 2No. strikes at 2.90mBGL (96.01mAOD) and 5.80mBGL (93.11mAOD) noting a slight inflow. Overlying this material is slag included in Made Ground from an infilled pit identified on historical mapping and Made Ground Engineered Fill comprising road construction.

Overall, the Glacial Till was encountered in 79No. boreholes at depths between 0.30 to 19.30BGL (73.19 to 101.52mAOD) for proven thicknesses of between 8.30 to 32.00m. The Glacial Till overlaid bedrock but the base of the unit was not always proven. The deposits were typically found underlying the majority of deposits and in some boreholes, from ground level.

4.3.9 Pennine Coal Measures

Bedrock comprising the Pennine Coal Measures was identified in 8No. boreholes along the M66 extending north from Simister Island interchange (BH-G01, BH-G02, BH-G10, BH-N05A, BH-N06C, BH-N10, BH-N11 and BH-N20). All boreholes were drilled into the Pennine Middle Coal Measures apart from BH-G01A which was undertaken on the boundary between Lower and the Middle Coal Measures.

The Pennine Coal Measures were encountered at depths between 24.50 to 37.50mBGL (56.48 to 61.82mAOD), below Glacial Till. The thickness of the formation investigated was 15.50m. The bedrock typically comprised very weak to weak, thickly laminated to thinly bedded blueish grey MUDSTONE and extremely weak to weak, reddish brown, thickly bedded, fine to coarse SANDSTONE. Extremely to very weak thinly to thickly laminated purple mottled blueish grey SILTSTONE was identified in BH-G01.4No. boreholes identified assumed zones of core loss within the Pennine Coal Measures as shown in Table 4-2. The boreholes are not located in close proximity to each other and only the zones within BH-G02 and BH-N06C are at a similar level. The ground investigation did not encounter any coal seams and the levels of core loss don't match with any anticipated seam levels.

Table 4-2 Assumed zones of core loss within the Pennine Coal Measures

Borehole ID	Depth from (mBGL)	Level from (mAOD)	Depth to (mBGL)	Level to (mAOD)
BH-G01	31.50	65.81	31.80	65.51
BH-G02	36.10	55.89	37.50	54.49
BH-G10	24.00	71.71	24.50	71.21
BH-N06C	36.60	57.12	37.00	56.72

There were 2No. groundwater strikes during the ground investigation; no rise was observed. The results are included in Table 4-3.

Table 4-3 Groundwater strikes within the Pennine Coal Measures

Borehole ID	Depth (mBGL)	Level (mAOD)	Layer
BH-G02	33.50	58.49	Mudstone
BH-G10	25.50	70.21	Sandstone

4.4 Hydrology

Ordnance Survey mapping shows a network of ponds 490m northeast of Simister Island interchange, within the area of mapped Peat Deposits. Castle Brook flows approximately due north from the area of ponds discharging into Whittle Brook, which is located some 2.1km north of Simister Island interchange.

To the southwest of Simister Island interchange there are ponds located within Heaton Park Golf Course, although not confirmed these are likely to be artificial. Heaton Park Reservoir is located 650m southwest of the interchange.

4.5 Hydrogeology

The PSSR identified that the Scheme area is largely underlain by cohesive glacial deposits, which are designated as Secondary Undifferentiated aquifers. The areas of glaciofluvial deposits are assigned as Secondary A aquifers, with the areas of Peat assigned as unproductive aquifers. The underlying bedrock, the Pennine Lower and Middle Coal Measures is designated as a Secondary A aquifer.

Across the Scheme groundwater was largely encountered within granular layers of the Glacial Till or the granular glacial deposits. A smaller number of groundwater strikes were identified within the Made Ground Engineered Fill, bedrock and cohesive units.

The strikes within the granular Glacial Till and the cohesive Glacial Till were identified at depths between 2.10 to 26.20m and 4.00 to 39.20m respectively, indicating that groundwater is typically trapped within the granular lenses and bands of material throughout the wider cohesive unit. Strikes from the cohesive portion of the unit were typically from a greater depth. As the granular glacial units overlie the Glacial Till the associated strikes were at a shallow depth, typically between 1 to 6m. The cohesive portion of the Alluvium also encountered shallow strikes at depths between 0.60 and 6.40m. The post fieldwork monitoring shows a large range for the groundwater table, further discussed in subsection 5.3.2.

4.6 Geomorphology

The bedrock underlying the majority of the site comprises the Pennine Coal Measures Formation deposited during the Carboniferous period. The ground investigation identified this formation to comprise mostly mudstone in the boreholes that were undertaken. The Chester Formation, underlying the site between Junction 17 and 18, but not identified during the investigations, is deposited during the Triassic Period and would typically comprise sandstone.

During the last ice age, in the Devensian period, glaciers were present over the site. Glacial Till was deposited underneath the glacier overlying the in-situ bedrock and the composition of the till is closely related to this underlying material. Unlike other glacial deposits, the Glacial Till did not undergo any subsequent reworking by meltwater from the glacier. These deposits can be thick in places, with a maximum thickness of 36.80m recorded in BH02.

Outside the influence of urban development, the topography of the southern half of the site, south of the M60 and M62 is characterised by a hummocky terrain. The underlying superficial geology here comprising the Hummocky Glacial Deposits.

In the northern half of the site, Glaciofluvial Ice Contact Deposits are present at Junction 18 and spread northwest. Glaciofluvial Deposits have isolated deposits located north along the M66 at Ch. 2150 to 2400 and west along the M60 at Ch. 1740 to 1900. The Glaciofluvial Ice Contact Deposits would have been deposited by glacial meltwater from the glacier itself, and therefore be present at its margins, whereas the Glaciofluvial Deposits would have been deposited a distance away by glacial meltwater streams. Both these deposits are unlikely to largely influence the topography of the area.

Northwest of Junction 18 there are mapped Glaciolacustrine Deposits. These deposits would have been transported by meltwater flowing into lakes bordering the glacier. The deposits can be laminated, commonly rich in organic matter, and locally with interbedded peat. Due to the adjacent mapped outcrop of Peat in this location it is likely that any organic content identified within the Glaciolacustrine Deposits will have been grouped in with the Alluvium deposits to ensure the extents of the material are correctly identified. It is therefore possible that a larger extent of Glaciolacustrine Deposits exists in the area than was identified in the ground investigations undertaken at the site.

There is a second “mapped Peat” outcrop at the site, located northeast of Junction 18. Both of these outcrops would have formed from partially decomposed vegetation growing under waterlogged, anaerobic conditions such as a bog. These deposits would have formed in low lying topography.

During the Pleistocene epoch the landscape was subjected to periglacial processes, resulting in the deposition of Head Deposits. These deposits are mapped at outcrops across the site and in proximity to the proposed works. The first is located straddling the M66 just south of junction 3 at Aviation Road, associated with Hollins Brook, Whittle Brook, Castle Brook. The second outcrop is located southeast of J18 along the course of the watercourse there and the third is located southwest of J18 associated with minor water courses including Fish Pond. Head is created by slow mass movement of the underlying strata, and essentially creates a re-worked homogenised layer on top of the underlying geology. Due to the material being reworked and containing the same constituents, it is therefore difficult to distinguish Head Deposits from the source material in a borehole. The Brooks discussed above were some of the watercourses that cut through the area during this period, locally affecting the topography, and giving rise to these outcrops of Head Deposits.

4.7 Mining

The desk study indicated that at Junction 17 the site is underlain by development high risk areas associated with the Worsley Four Feet Coal Seam. The proposed Scheme works do not extend west to this high-risk area and the ground investigation undertaken between Junction 17 and Junction 18 has identified that there is sufficient thickness of superficial deposits above the overlying bedrock to mitigate against collapse of workings propagating to surface or foundation depth for any gantry construction.

The desk study also identified 3No. disused mine shafts (shaft IDs: 380404-001, 380404-002, 380404-003) within the vicinity of proposed attenuation pond 6 and a geophysical survey was undertaken here to investigate. The pond has subsequently been removed from the proposed scope and as such there will be no development in this area. As the site is an outlier to the DCO design and does not affect any of the main line works, the results of the geophysical survey will not be discussed in this GIR.

5. Ground conditions and material parameters

5.1 Laboratory test results

5.1.1 Geotechnical laboratory test results

The results of the intrusive ground investigation, monitoring programme and subsequent laboratory analysis undertaken are detailed in subsection 5.2. This data is displayed in parameter plots which are located within Annex F.

5.1.2 Geoenvironmental laboratory test results

The soil and groundwater testing results are presented in Annex G and Annex H, respectively.

A total of 179 soil samples underwent analysis for asbestos screen and identification. Asbestos Containing Materials (ACM) and/or loose fibres were identified within BH-G10 (0.50mBGL), WS04 (2.00mBGL), WS09 (2.00mBGL), and WS10 (3.50mBGL). These asbestos detections were found in made ground soils located beneath the M60 and M66 carriageways.

The implications of geoenvironmental laboratory test results are discussed in subsection 6.

5.2 Derivation of material parameters

During the review of the laboratory test data it became apparent that for the granular units there are large enough portion of cohesive material to undertake plasticity and triaxial testing. Where this has occurred, the results have been discussed, however in terms of design parameters the unit has been treat as a granular and the cohesive testing information only included to give further information on the cohesive layers within these units.

It has been observed that some of the glacial material is not distinctly cohesive or granular and therefore some apparently cohesive soils appear on the granular PSD plots and vice versa. This is also evident on some of the Made Ground plots and for these units is potentially a highlight of the discrepancy in the logging that has been seen during the ground investigation.

Additionally, due to the variability in Made Ground encountered across the site, it has been split into several units as described in the following sections. The parameters ultimately derived in Table 5-6 for the Made Ground- Engineered Fill are considered suitable given the engineered nature of the material. For the remainder of the Made Ground present across the site, a discussion of appropriate moderately conservative parameters is given in the following sections and summarised in Table 5-6. Nevertheless, given the observed variability, it is recommended that location specific parameters should be reviewed during detailed design as appropriate.

5.2.1 Made Ground- Cohesive

5.2.1.1 Field Observation and Consistency Index

Based on BS EN ISO 14688-2:2017, it is possible to make an initial assessment of the consistency index of a material based on the exploratory hole descriptions. The consistency index (IC) is the numerical representation of the difference between the liquid limit and the natural moisture content expressed as a percentage ratio of the plasticity index, using the following:

$$I_c = (W_L - w) / I_P$$

Where:

I_c = consistency index

w_L = liquid limit

w = moisture content

I_P = plasticity index

A value of $I_c = 0$ indicates that natural moisture content is at the liquid limit whilst a value of 1 equates to it being at the plastic limit. The field assessment of I_c allows the overall plasticity of the material to be compared with that determined by later laboratory testing. Under some circumstances, such as when sample disturbance, storage and testing delays occur, the field assessment may be more representative of the material than laboratory testing.

The available borehole logs for the cohesive Made Ground describe the deposits as 'soft to firm', which would equate to an I_c between 0.25 and 0.75 in accordance with BS EN ISO 14688-2:2017.

5.2.1.2 Classification Tests

PSD tests were carried out on 4No. samples of cohesive Made Ground. The results are presented on Figure A1 and generally classify the material as a 'slightly clayey, slightly gravelly, sandy SILT' or a slightly clayey, slightly gravelly, silty fine to coarse SAND'. The cohesive samples shown on the figure show a large granular portion, which gives rise to the previous classification of material. The cohesive material is similar to the description given in the borehole logs.

Plasticity Tests were carried out on 3No. samples of cohesive Made Ground. The liquid limit and plastic limit of the samples ranged from 28% to 34% and 17% to 21% respectively. The mean liquid and plastic limit were 31% and 19% respectively. The plasticity index ranged from 11 to 13 with a mean value of 12. The plasticity data is displayed on Figure A4. The plasticity chart in Figure A5 indicates the cohesive Made Ground comprises a low plasticity clay, plotting above the A line.

The natural moisture content of the cohesive Made Ground was tested in 7No. samples and showed a range of 12.2% to 66.5% with a mean of 23.5%, as shown in Figure A4. The figure shows there is no correlation with depth.

The calculated value of I_c based on the laboratory test results ranges from 0.83 to 1.48 with an average of 1.07, indicating a stiff to very stiff material. This value is much larger range than the 'soft to firm' indicated by the borehole logs, and perhaps highlights the discrepancies seen in the logging or that the samples have dried out before testing.

Bulk density was determined by 1No. Triaxial Test. The result was 2.18Mg/m³, providing a unit weight of 21.34kN/m³. With reference to Carter and Bentley (2016) this value is broadly consistent with normally consolidated clays (1.80Mg/m³ to 2.20Mg/m³). However, the dataset is limited, and the material description also identified soft material which would be more consistent with soft, open structured clays (1.70Mg/m³ to 1.90Mg/m³). Using all of the above information, a bulk density of 2.04Mg/m³, equating to a derived weight density of 20kN/m³, is considered appropriate.

5.2.1.3 Standard Penetration Tests

The SPT N values were corrected to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (Er) of 64-79% depending on each SPT hammer used. 4No. SPTs were undertaken within the cohesive Made Ground as part of the ground investigations. The SPT N_{60} values range from 2 to 8 with a mean of 6, as shown in Figure A6. The figure shows there is no correlation with depth.

5.2.1.4 Undrained Shear Strength

Undrained shear strength (S_u) results for the cohesive Made Ground were measured from 3No. quick undrained triaxial tests with the results ranging from 32kN/m² to 41kN/m² with a mean of 35kN/m².

The undrained shear strength of the material was derived from SPT N_{60} values based on the work of Stroud and Butler (1975) and taking an f_1 value of 7.72, based on a mean plasticity index of 12. Calculated S_u values ranged from 15kN/m² to 54kN/m² with a mean of 39kN/m². The results are shown on Figure A7. If the lowest S_u value of 15kN/m² is removed from the above range, the range is reduced to 39kN/m² to 54kN/m² and the mean increase to 46kN/m². The 15kN/m² value is anomalous within the range and is typical of a very low shear strength.

Due to the limited dataset of values gathered across the Scheme a conservative value for the cohesive Made Ground. Based on all the available data, a design value of 35kN/m² at ground level increasing by 3.5kN/m² per m, is considered appropriate for the cohesive Made Ground.

5.2.1.5 Effective Shear Strength

No effective strength testing was undertaken for the cohesive Made Ground. Estimates have been determined from plasticity data.

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5 \log_{10} I_p)$. Based on 3No. tests of plasticity a range from 28° to 29° with a mean of 29° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (11% to 13%), using correlations published by Gibson (1953) and gave values of ϕ'_p between 33° and 34° and residual values (ϕ'_r) of between 27° to 28° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the available data it is considered that the derived values of effective shear strength for the cohesive Made Ground for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$
- Effective peak angle of shearing resistance: $\phi' = 27^\circ$

5.2.1.6 Compression and Consolidation

No oedometer tests were undertaken on the cohesive Made Ground to determine the coefficient of compressibility (m_v) and coefficient of consolidation (c_v).

Using the correlation between set out by Stroud and Butler in Carter and Bentley (2016) it is possible to correlate SPT and plasticity index to estimate m_v . A total of 4No. SPTs were correlated with the average plasticity index of 12 for the cohesive Made Ground. The m_v values calculated ranged from 0.19m²/MN to 0.66m²/MN with an average SPT correlated m_v of 0.33m²/MN.

For the purpose of design the material is considered to be of medium compressibility and a moderately conservative value of 0.3m²/MN is recommended, although it may be preferable to determine M_v locally at detailed design.

Likewise, c_v will be determined locally during detailed design.

5.2.1.7 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.35 for a low plasticity clay.

The Young's Modulus for the cohesive Made Ground was calculated from Skempton and Bjerrum (1957) as: $1/m_v$ giving a value of 3.3MPa.

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 20MPa. The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 12MPa.

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0° .

5.2.2 Made Ground- Granular

5.2.2.1 Field Observation and Density Index

The density index is the difference between the void ratio and the minimum and maximum densities as measured in the laboratory and represents the relative compactness of the material. The density index (I_D) can be expressed as a percentage of the void ratio using the following equation:

$$I_D = (e_{\max} - e) / (e_{\max} - e_{\min})$$

Where:

I_D = density index

e_{\max} = maximum void ratio

e_{\min} = minimum void ratio

e = soil's void ratio

The available borehole logs for the granular Made Ground describe the deposits as 'medium dense'. The material description equates to an I_D between 35 to 65% in accordance with BS EN ISO 14688-2:2017.

5.2.2.2 Classification Tests

PSD tests were carried out on 5No. samples of Made Ground- Granular. The results are presented on Figure A1 and generally classify the material as a 'slightly clayey, slightly gravelly, silty SAND' or a 'slightly silty, gravelly SAND'. The material is typically split into 2 groups, one with a larger cohesive portion, and one with a lower cohesive portion. The more granular material is similar to the description given in the borehole logs.

Bulk density was not determined for the granular Made Ground. Based on the material description, reference has been made to Carter and Bentley (2016). A 'medium dense' material indicates a bulk density of 1.90Mg/m^3 to 2.20Mg/m^3 . The boreholes undertaken for this unit were limited and due to the nature of the material, variability will be seen across the site and therefore a conservative value has been taken. Using this information, a bulk density of 2.19Mg/m^3 , equating to a derived weight density of 21.5kN/m^3 , is considered appropriate.

5.2.2.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give $(N_1)_{60}$ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 49-79% depending on each SPT hammer used. The 12No. SPT $(N_1)_{60}$ values range from 4 to 32 with a mean of 14.5. This correlates with an I_D of medium dense which correlates with the borehole log description. Figure A6 indicates there is no correlation with depth.

5.2.2.4 Effective Shear Strength

Effective shear strength testing was carried out on 1No. sample of granular Made Ground using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') of 39°.

The interpretation of the 12No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 28° to 46° with a mean of 34°.

The derived value has been given as 34°, this value is lower than the result seen from the shear box and is within the range given from the SPT correlation.

5.2.2.5 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to medium dense based on field descriptions an SPT N of 11 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 9.9MPa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 0°.

5.2.3 Made Ground- Northeast Mound Cohesive

5.2.3.1 Field Observation and Consistency Index

The available borehole logs describe the deposits as 'firm', which equates to an I_c between 0.50 and 0.75 in accordance with BS EN ISO 14688-2:2017.

5.2.3.2 Classification Tests

PSD tests were carried out on 7No. samples of cohesive Made Ground- Northeast Mound. The results are presented on Figure A2 and generally classify the material as a 'slightly gravelly, sandy SILT' and a 'slightly gravelly, silty SAND'. Some of the samples have larger granular portions than would be expected for material classified as cohesive.

Plasticity Tests were carried out on 4No. samples of cohesive Made Ground- Northeast Mound. The liquid limit and plastic limit of the samples ranged from 24% to 28% and 15% to 18% respectively. The mean liquid and plastic limit were 26% and 17% respectively. The plasticity index ranged from 8 to 10 with a mean value of 9. The plasticity data is displayed on Figure A4. The plasticity chart in Figure A5 indicates the cohesive portion of the material comprises a low plasticity clay, plotting above the A line.

The natural moisture content of the cohesive Made Ground- Northeast Mound was tested in 6No. samples and showed a range of 11.8% to 20.7% with a mean of 16.2%. As shown in Figure A4.

The calculated value of I_c based on the laboratory test results ranges from 0.66 to 1.25 with an average of 0.89, indicating a stiff material, and further highlights the discrepancies seen in the logging or that the samples have dried out before testing.

Bulk density was not determined for the cohesive Made Ground- Northeast Mound. Based on the material description, reference has been made to Carter and Bentley (2016). A 'firm' material indicates a bulk density of 1.80Mg/m³ to 2.20Mg/m³ typical of normally consolidated clays. Using this information, a bulk density of 2.04Mg/m³, equating to a derived weight density of 20.0kN/m³, is considered appropriate.

5.2.3.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 64-74% depending on each SPT hammer used. 15No. SPTs were undertaken within the cohesive Made Ground- Northeast Mound as part of the ground investigations. The SPT N_{60} values range from 3 to 25 with a mean of 11, as shown in Figure A6. The figure shows there appears to be a general increase with depth.

5.2.3.4 Undrained Shear Strength

Undrained shear strength results for the cohesive Made Ground- Northeast Mound were measured from 1No. field shear vane. The result was 97kN/m².

A triaxial test was undertaken on a sample of granular Made Ground Northeast Mound material. The test was undertaken on a sample within a layer of dense gravelly clayey silty sand in BH-N17 at 8.2m. 3No. S_u results ranged from 84kN/m² to 136kN/m² with an average of 104kN/m². The data is shown on Figure A7. The results from this testing will be reviewed as part of the cohesive portion of the unit.

The undrained shear strength of the material was derived from SPT N_{60} values based on the work of Stroud and Butler (1975) and taking an f_1 value of 9.18, based on a mean plasticity index of 9. The f_1 value is derived from 4No. plasticity index tests with values of 8, 9, 9 and 10. The small dataset and large values mean the derived f_1 value is increased. Calculated S_u values ranged from 28kN/m² to 202kN/m² with a mean of 88kN/m². The results are shown on Figure A7. The figure shows there appears to be a general increase with depth.

Due to the limited dataset of values gathered across the Scheme a conservative value for the cohesive Made Ground- Northeast Mound has been taken. Based on all the available data, a design value of 40kN/m² at ground level increasing by 3.5kN/m² per m, is considered appropriate for the cohesive Made Ground- Northeast Mound.

5.2.3.5 Effective Shear Strength

Effective shear strength testing was carried out on 1No. sample of cohesive Northeast Mound material using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') of 40°.

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5 \log_{10} I_p)$. Based on 4No. tests of plasticity a range from 30° to 31° with a mean of 30° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (8% to 10%), using correlations published by Gibson (1953) and gave values of ϕ'_p of 34° and residual values (ϕ'_r) of 26° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. The value derived from the shear box testing appears to be uncharacteristically large, however, based on the available data it is considered that the derived values of effective shear strength for the cohesive Made Ground- Northeast Mound for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$
- Effective peak angle of shearing resistance: $\phi' = 27^\circ$

The stated values all appear large for an anthropogenic material. A value of 27° has been taken in line with the remainder of the cohesive Made Ground in the Scheme.

5.2.3.6 Compression and Consolidation

No oedometer tests were undertaken on the cohesive Made Ground- Northeast Mound.

Using the correlation between set out by Stroud and Butler in Carter and Bentley (2016) it is possible to correlate SPT and plasticity index to estimate m_v . A total of 15 SPTs were correlated with the average plasticity index of 9 for the cohesive Made Ground- Northeast Mound. The m_v values calculated ranged from 0.04m²/MN to 0.32m²/MN with an average SPT correlated m_v of 0.14m²/MN.

For the purpose of design the material is considered to be of medium compressibility and a moderately conservative value of 0.3m²/MN is recommended, although it may be preferable to determine M_v locally at detailed design.

Likewise, c_v will be determined locally during detailed design.

5.2.3.7 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.35 for a low plasticity clay.

The Young's Modulus for the cohesive Made Ground- Northeast Mound was calculated from Skempton and Bjerrum (1957) as: 1/ m_v giving a value of 3.3MPa.

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 20MPa. The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 12MPa.

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0°.

5.2.4 Made Ground- Northeast Mound Granular

5.2.4.1 Field Observation and Density Index

The available borehole logs describe the deposits as 'loose and medium dense'. The material description equates to an I_D between 15 to 65% in accordance with BS EN ISO 14688-2:2017.

5.2.4.2 Classification Tests

PSD tests were carried out on 12No. samples of granular Made Ground- Northeast Mound. The results are presented on Figure A2 and generally classify the material as a 'slightly clayey, silty fine to coarse SAND'. 2No. samples show a 'slightly silty, slightly sandy, GRAVEL'. Neither of these gravel layers are highlighted on the borehole logs. However, the sand description is typical.

The natural moisture content of the granular Made Ground- Northeast Mound was tested in 8No. samples and showed a range of 10.3% to 28.3% with a mean of 19%, as shown in Figure A5.

Bulk density was determined by 3No. Triaxial Tests. The results ranged from 1.75Mg/m³ to 1.82Mg/m³, with the mean bulk density coming to 1.79Mg/m³, providing a unit weight of 17.56kN/m³. With reference to Carter and Bentley (2016) these values are broadly consistent with a very loose (1.70Mg/m³ to 1.80Mg/m³) to loose sand and gravel (1.80Mg/m³ to 1.90Mg/m³). However, the dataset is limited, and the material description also identified medium dense material which would be more consistent with values of 1.90Mg/m³ to 2.00Mg/m³. Using all of the above information, a bulk density of 2.04Mg/m³, equating to a derived weight density of 20.0kN/m³, is considered appropriate.

5.2.4.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give $(N_1)_{60}$ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 64-74% depending on each SPT hammer used. The 23No. SPT $(N_1)_{60}$ values range from 3.2 to 162.8 with a mean of 43 as shown in Figure A6. This correlates with the I_D of very dense material. This material is denser than the 'loose and medium' dense material described in the borehole logs.

5.2.4.4 Effective Shear Strength

Effective shear strength testing was carried out on 1No. sample of granular Northeast Mound material using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') of 40° .

The interpretation of the 23No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 28° to 48° with a mean of 39° .

The derived value has been given as 34° . This value is lower than the result indicated from the shear box and SPT correlation, however the value has been taken in line with the remainder of the granular Made Ground in the Scheme.

5.2.4.5 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to very dense based on field descriptions an SPT N of 16 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 14.4MPa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 6° .

5.2.5 Made Ground- Northwest Cohesive

5.2.5.1 Field Observation and Consistency Index

The available borehole logs describe the deposits as 'very soft to firm'. The material description equates to an I_c of <0.25 to 0.75 in accordance with BS EN ISO 14688-2:2017.

5.2.5.2 Classification Tests

PSD tests were carried out on 5No. samples of cohesive Made Ground- Northwest. The results are presented on Figure A3 and generally classify the material as a 'sandy silty CLAY' and one sample as a 'silty, sandy GRAVEL'. This gravel sample must be a thin layer within the wider cohesive layer, and the clay description is typically of the limited material identified in the borehole logs.

Plasticity Tests were carried out on 4No. samples of cohesive Made Ground- Northwest. The liquid limit and plastic limit of the samples ranged from 25% to 31% and 17% to 19% respectively. The mean liquid and plastic limit were 28% and 18% respectively. The plasticity index ranged from 8 to 13 with a mean value of 10. The plasticity data is displayed on Figure A4. The plasticity chart in Figure A5 indicates the cohesive portion of the material comprises a low plasticity clay, plotting above the A line.

The natural moisture content of the cohesive Made Ground- Northwest was tested in 4No. samples and showed a range of 14% to 16.9% with a mean of 15.5%. As shown in Figure A4.

The calculated value of I_c based on the laboratory test results ranges from 1.13 to 1.31 with an average of 1.21, indicating a stiff material, and further highlights the discrepancies seen in the logging or that the samples have dried out before testing.

Bulk density was not determined for the cohesive Made Ground- Northwest. Based on the material description, reference has been made to Carter and Bentley (2016). A 'very soft to firm' material, indicates a bulk density typical of a soft, open structured and the lower end of a firm or stiff normally consolidated clays (1.70Mg/m^3 to 2.20Mg/m^3). Due to the variability likely to be seen in this material a conservative value has been taken. Using this information, a bulk density of 2.04Mg/m^3 , equating to a derived weight density of 20kN/m^3 , is considered appropriate.

5.2.5.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 74% for the SPT hammer used. 5No. SPTs were undertaken within the cohesive Made Ground- Northwest as part of the ground investigations. The SPT N_{60} values range from 1 to 7 with a mean of 4. As shown in Figure A6. The figure indicates the values appear to decrease with depth.

5.2.5.4 Undrained Shear Strength

The undrained shear strength of the cohesive Made Ground- Northwest was derived from SPT N_{60} values based on the work of Stroud and Butler (1975) and taking an f_1 value of 8.64, based on a mean plasticity index of 10. The f_1 value is derived from 4No. plasticity index tests with values of 8, 9, 10 and 13. The small dataset and large values mean the derived f_1 value is increased. Calculated S_u values ranged from 5kN/m^2 to 52kN/m^2 with a mean of 25kN/m^2 . The results are shown on Figure A7. The smallest values are from material described as 'soft clay with organic black, streaks'.

Based on the available data, a derived value of 25kN/m^2 is considered appropriate for the cohesive Made Ground- Northwest.

5.2.5.5 Effective Shear Strength

No effective strength testing was undertaken for the cohesive Made Ground- Northwest material. Estimates have been determined from plasticity and SPT data.

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5\log_{10}I_p)$. Based on 4No. tests of plasticity a range from 28° to 31° with a mean of 30° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (8% to 13%), using correlations published by Gibson (1953) and gave values of ϕ'_p between 32° and 34° and residual values (ϕ'_r) of between 25° to 28° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the available data it is considered that the derived values of effective shear strength for the cohesive Made Ground- Northwest for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$

- Effective peak angle of shearing resistance: $\phi' = 27^\circ$

The derived values all appear large for an anthropogenic material. A value of 27° has been taken in line with the remainder of the cohesive Made Ground in the Scheme.

5.2.5.6 Compression and Consolidation

No oedometer tests were undertaken on the cohesive Made Ground- Northwest.

Using the correlation between set out by Stroud and Butler in Carter and Bentley (2016) it is possible to correlate SPT and plasticity index to estimate m_v . A total of 5 SPTs were correlated with the average plasticity index of 10 for the cohesive Made Ground- Northwest. The m_v values calculated ranged from $0.18\text{m}^2/\text{MN}$ to $1.1\text{m}^2/\text{MN}$ with an average SPT correlated m_v of $0.49\text{m}^2/\text{MN}$.

For the purpose of design the material is considered to be of medium compressibility and a moderately conservative value of $0.3\text{m}^2/\text{MN}$ is recommended, although it may be preferable to determine m_v locally at detailed design.

Likewise, c_v will be determined locally during detailed design.

5.2.5.7 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.35 for a low plasticity clay.

The Young's Modulus for the cohesive Made Ground- Northwest was calculated from Skempton and Bjerrum (1957) as: $1/m_v$ giving a value of 3.3MPa.

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 15MPa. The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 9MPa.

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0° .

5.2.6 Made Ground- Northwest Granular

5.2.6.1 Field Observation and Density Index

The available borehole logs describe the deposits as 'very loose'. The material description equates to an I_D between 0 to 15% in accordance with BS EN ISO 14688-2:2017.

5.2.6.2 Classification Tests

PSD tests were carried out on 2No. samples of granular Made Ground- Northwest. The results are presented on Figure A3 and generally classify the material as a 'slightly gravelly, silty, fine to coarse SAND' and a 'silty, sandy GRAVEL'.

The natural moisture content of the granular Made Ground- Northwest was tested in 1No. samples and gave a value of 16.5%.

Bulk density was not determined for the granular Made Ground- Northwest. Based on the material description, the borehole logs indicate a 'very loose' material. However, a review of the SPT N values in Section 5.2.6.3 indicates the material correlates to a medium density. Due to the small number of boreholes this correlation is drawn from, a material description of 'loose' is considered appropriate as it sits in between the 2No. correlated densities. Reference has been made to Carter and Bentley (2016) to indicate a bulk density of $1.80\text{Mg}/\text{m}^3$ to $1.90\text{Mg}/\text{m}^3$, for a 'loose' material.

Using this information, a bulk density of 1.89Mg/m^3 , equating to a derived weight density of 18.5kN/m^3 , is considered appropriate.

5.2.6.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give $(N_1)_{60}$ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 74% for the SPT hammer used. The 2No. SPT $(N_1)_{60}$ values range from 18.5 to 25.9 with a mean of 22.9. This correlates with the ID of medium dense material. This is denser than the 'loose' material described in the borehole logs, as shown in Figure A6.

5.2.6.4 Effective Shear Strength

No effective strength testing was undertaken for the granular Made Ground- Northwest material. Estimates have been determined from plasticity and SPT data.

The interpretation of the 3No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 27° to 38° with a mean of 33° .

The derived value has been given as 34° . This value is 1° higher than the mean result indicated from the SPT correlations on a limited number of tests, however the value has been taken in line with the remainder of the granular Made Ground in the Scheme and is considered appropriate.

5.2.6.5 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be medium dense based on field descriptions an SPT N of 10 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 9MPa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 3° .

5.2.7 Made Ground- Engineered Fill Cohesive

5.2.7.1 Field Observation and Consistency Index

The available borehole logs describe the deposits as 'soft to stiff'. The material description equates to an I_c between 0.25 to 1.00 in accordance with BS EN ISO 14688-2:20171.

5.2.7.2 Classification Tests

PSD tests were carried out on 17No. samples of cohesive Made Ground- Engineered Fill. The results are presented on Figure B1 and generally classify the material as a 'slightly gravelly, silty fine to coarse SAND' or a 'slightly gravelly, sandy SILT'. One sample shows a slightly sandy, slightly gravelly COBBLE mixture.

Plasticity Tests were carried out on 31No. samples of cohesive Made Ground- Engineered Fill. The liquid limit and plastic limit of the samples ranged from 23% to 37% and 11% to 21% respectively. The mean liquid and plastic limit were 28% and 16% respectively. The plasticity index ranged from 6 to 17 with a mean value of 13. The plasticity data is displayed on Figure B2. The plasticity chart in Figure B3 indicates the material comprises a low plasticity clay. One value lies within the intermediate plasticity clay range.

The natural moisture content of the cohesive Made Ground- Engineered Fill was tested in 35No. samples and showed a range of 7% to 21.7% with a mean of 15.6%. As shown in Figure B2.

The calculated value of I_c based on the laboratory test results ranges from 0.50 to 3.33 with an average of 1.05, indicating a very stiff material. This is at the top end of the descriptions indicated by the logging or that the samples have dried out before testing.

Bulk density was determined as part of 2No. consolidation tests. The results ranged from 2.14Mg/m^3 to 2.2Mg/m^3 , with the mean bulk density coming to 2.17Mg/m^3 , providing a unit weight of 21.3kN/m^3 . With reference to Carter and Bentley (2016) these values are broadly consistent with normally consolidated clays (1.80Mg/m^3 to 2.20Mg/m^3). However, the material description also identified soft material which would be more consistent with soft, open structured clays (1.70Mg/m^3 to 1.90Mg/m^3). Using all of the above information, a bulk density of 2.04Mg/m^3 , equating to a derived weight density of 20kN/m^3 , is considered appropriate.

5.2.7.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 58-74% depending on each SPT hammer used. 22No. SPTs were undertaken within the cohesive Made Ground- Engineered Fill as part of the ground investigations. The SPT N_{60} values range from 3 to 62 with a mean of 22. The results are shown on Figure B4. The figure shows there is no correlation with depth.

5.2.7.4 Undrained Shear Strength

Undrained shear strength results for the cohesive Made Ground- Engineered Fill were measured from 2No. laboratory shear vanes with the results ranging from 42kN/m^2 to 86kN/m^2 with a mean of 64kN/m^2 .

The undrained shear strength of the material was derived from SPT N_{60} values based on the work of Stroud and Butler (1975) and taking an f_1 value of 7.33, based on a mean plasticity index of 13. Calculated S_u values ranged from 14kN/m^2 to 225kN/m^2 with a mean of 94kN/m^2 . The results are shown on Figure B5. If the cluster of higher values are discounted, there appears to be a slight increase in undrained shear strength with depth.

Based on the available data, a derived value of 50kN/m^2 is considered appropriate for the cohesive Made Ground- Engineered Fill.

5.2.7.5 Effective Shear Strength

No effective strength testing was undertaken for the cohesive Made Ground- Engineered Fill. Estimates have been determined from plasticity data.

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5\log_{10}I_p)$. Based on 31No. tests of plasticity a range from 27° to 32° with a mean of 28° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (6% to 17%), using correlations published by Gibson (1953) and gave values of ϕ'_p of between 31° to 35° and residual values (ϕ'_r) of between 23° to 28° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the available data it is considered that the derived values of

effective shear strength for the cohesive Made Ground- Engineered Fill for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$
- Effective peak angle of shearing resistance: $\varphi' = 27^\circ$

5.2.7.6 Compression and Consolidation

2No. oedometer tests have been carried out on samples of cohesive Made Ground- Engineered Fill. These tests directly measured 2No. values of m_v of $0.44\text{m}^2/\text{MN}$ to $0.84\text{m}^2/\text{MN}$, the mean is $0.64\text{m}^2/\text{MN}$. This classifies the cohesive Made Ground- Engineered Fill as a material of high compressibility according to Carter and Bentley (2016). The larger values are from material described as 'soft'.

Using the correlation between set out by Stroud and Butler in Carter and Bentley (2016) it is possible to correlate SPT and plasticity index to estimate m_v . A total of 20 SPTs were correlated with the average plasticity index of 13 for the cohesive Made Ground- Engineered Fill. The m_v values calculated ranged from $0.03\text{m}^2/\text{MN}$ to $0.46\text{m}^2/\text{MN}$ with an average SPT correlated m_v of $0.14\text{m}^2/\text{MN}$. The largest correlated m_v value is from material described as 'soft' and is anomalous when considering the range of the values. When this larger value is removed the range reduces to $0.03\text{m}^2/\text{MN}$ to $0.28\text{m}^2/\text{MN}$ with an average of $0.12\text{m}^2/\text{MN}$.

Due to the variability in the data, a moderately conservative value of $0.2\text{m}^2/\text{MN}$ is recommended, although it may be preferable to determine m_v locally at detailed design.

The c_v was calculated using the log time method. Values for 4No. cohesive Made Ground- Engineered Fill test results taken over 100kPa ranged from $1\text{m}^2/\text{year}$ to $32\text{m}^2/\text{year}$ with a mean of $14\text{m}^2/\text{year}$.

The laboratory testing may not accurately represent the in-situ field permeability and as such actual rates of consolidation may be greater than reported. Due to the variability of c_v values, they will be determined locally during detailed design.

5.2.7.7 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.35 for a low plasticity clay.

The Young's Modulus for the cohesive Made Ground Embankment Fill was calculated from Skempton and Bjerrum (1957) as: $1/m_v$ giving a value of 3.3MPa.

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 25MPa. The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 15MPa.

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0° .

5.2.8 Made Ground- Engineered Fill Granular

5.2.8.1 Field Observation and Density Index

The available borehole logs describe the deposits as 'medium dense to very dense'. The material description equates to an I_D between 35 to 100% in accordance with BS EN ISO 14688-2:2017.

5.2.8.2 Classification Tests

PSD tests were carried out on 49No. samples of granular Made Ground- Engineered Fill. The results are presented on Figure C1 and generally classify the material as a 'silty sandy GRAVEL' and a 'silty, gravely, fine to coarse SAND'.

Although the Made Ground- Engineered Fill has been split into a cohesive and a granular component, results have been returned for cohesive samples taken within the layers logged as granular. Due the small number of test results returned, rather than reassign these entire layers as cohesive, it has been decided to leave these layers as they were logged and instead highlight where this has occurred.

Plasticity Tests were carried out on 2No. samples of granular Made Ground- Engineered Fill. The liquid limit and plastic limit of the samples ranged from 24% to 29% and 15% to 17% respectively. The mean liquid and plastic limit were 27% and 16% respectively. The plasticity index ranged from 9 to 12 with a mean value of 11. The plasticity data is displayed on Figure C2. The plasticity chart has been combined with the cohesive portion of the unit, Figure B2, and indicates the material sampled comprises a low plasticity clay.

The natural moisture content of the granular Made Ground- Engineered Fill was tested in 7No. samples and showed a range of 4.9% to 18.2% with a mean of 12.7%. As shown in Figure C2.

Bulk density was not determined for the granular Made Ground- Engineered Fill. Based on the material description, reference has been made to Carter and Bentley (2016). A 'medium dense to very dense' material indicates a bulk density of 1.90Mg/m³ to 2.30Mg/m³. Using this information, a bulk density of 2.19Mg/m³, equating to a derived weight density of 21.5kN/m³, is considered appropriate.

5.2.8.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give $(N_1)_{60}$ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (Er) of 49-74% depending on each SPT hammer used. The 86No. SPT $(N_1)_{60}$ values range from 4 to 535 with a mean of 60. This correlates with the I_D of medium dense material. This matches the lower density material from the borehole logs, where material was described as 'medium to very dense'. 3No. large values of 1256.3, 2216.8 and 1191.3 were excluded from the range given as they were too large and not representative of the material. References to large cobbles were indicated in 2No. of the material descriptions. The results are shown on Figure C3 and indicate there is no correlation with depth.

5.2.8.4 Effective Shear Strength

Effective shear strength testing was carried out on 1No. sample of granular Made Ground- Engineered Fill material using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') of 43°.

The interpretation of the 90No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 28° to 48° with a mean of 39°.

The derived value has been given as 34°. This value is lower than the result indicated from the shear box testing and is within the range stated by the SPT correlation, however the value has been taken in line with the remainder of the granular Made Ground in the Scheme.

5.2.8.5 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to very dense based on field descriptions an SPT N of 16 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 14.4MPa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 3° .

5.2.9 Made Ground- Pulverised Fuel Ash

5.2.9.1 Field Observation, Consistency Index and Density Index

The available borehole logs describe the deposits as 'medium dense to dense SAND, and 'soft to firm SILT'. The material description equates to an I_D between 35 to 85% and an I_C between 0.25 to 0.75, for the granular and cohesive components respectively, in accordance with BS EN ISO 14688-2:2017.

Although some layers have been described as silt the Made Ground- Pulverised Fuel Ash will be classified as a granular unit for the rest of the description.

5.2.9.2 Classification Tests

PSD tests were carried out on 10No. samples of Made Ground- Pulverised Fuel Ash. The results are presented on Figure D1 and generally classify the material as a 'sandy SILT' and a 'silty, gravely, fine to coarse SAND'.

Plasticity Tests were carried out on 5No. samples of Made Ground- Pulverised Fuel Ash. The liquid limit and plastic limit of the samples ranged from 24% to 42% and 13% to 33% respectively. The mean liquid and plastic limit were 38% and 28% respectively. The plasticity index ranged from 7 to 11 with a mean value of 9. The plasticity data is displayed on Figure D2. The plasticity chart in Figure D3 indicates the material typically comprises an intermediate plasticity silt. One value lies within the low plasticity clay range.

The natural moisture content of the Made Ground- Pulverised Fuel Ash was tested in 6No. samples and showed a range of 15.7% to 31% with a mean of 25%. As shown in Figure D2.

The calculated value of I_C based on the laboratory test results ranges from 0.75 to 2.41 with an average of 1.51, indicating a very stiff material. This value sits a lot higher than the material descriptions, which are given as 'soft to firm', and perhaps further highlights the discrepancies seen in the logging.

Bulk density was not determined for the Made Ground- Pulverised Fuel Ash. Based on the material description, reference has been made to Tomlinson (2001). Pulverised Fuel Ash is indicated to have a bulk density of 1.20Mg/m³ to 1.50Mg/m³ when the material is dry. Using this information, a bulk density of 1.47Mg/m³, equating to a derived weight density of 15.0kN/m³, is considered appropriate.

5.2.9.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give $(N_1)_{60}$ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 49-74% depending on each SPT hammer used. 40No. SPTs were undertaken within the cohesive Made Ground as part of the ground

investigations. The 40No. SPT (N_1)₆₀ values range from 5 to 124 with a mean of 51.4. This correlates with the I_D of very dense material. The borehole logs, however, describe the material as 'medium dense to dense'. The results are shown on Figure D4 and indicate there is no correlation with depth.

5.2.9.4 Effective Shear Strength

Effective shear strength testing was carried out on 4No. sample of Made Ground- Pulverised Fuel Ash using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') ranging from 30° to 35° with a mean of 33°.

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5 \log_{10} I_P)$. Based on 5No. tests of plasticity a range from 29° to 31° with a mean of 30° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (7% to 11%), using correlations published by Gibson (1953) and gave values of ϕ'_p of between 33° and 34° and residual values (ϕ'_r) of between 25° to 27° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the available data it is considered that the derived values of effective shear strength for the Made Ground- Pulverised Fuel Ash for use in design may be taken as:

- Effective cohesion intercept: $c' = 0 \text{ kN/m}^2$
- Effective peak angle of shearing resistance: $\phi' = 30^\circ$

The value is reflective of the variable nature of the material, i.e., containing both silt and sand fractions.

5.2.9.5 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.40 for a medium plasticity silt. SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to very dense based on field descriptions an SPT N of 32 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 28.8MPa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 6°.

5.2.10 Alluvium - Peat

5.2.10.1 Field Observation and Consistency Index

The available borehole logs describe the deposits as 'very soft to firm'. The material description equates to an I_c of <0.25 to 0.75 in accordance with BS EN ISO 14688-2:2017.

5.2.10.2 Classification Tests

No PSD tests were carried out on the Alluvium - Peat.

Plasticity Tests were carried out on 2No. samples of Alluvium - Peat. The liquid limit and plastic limit of the samples ranged from 26% to 67% and 13% to 38% respectively. The mean liquid and plastic limit were 46.5% and 25.5% respectively. The plasticity index ranged from 13 to 29 with a mean value of 21. The plasticity data is displayed on Figure E2. The plasticity chart in Figure E3

indicates the 2No. samples comprises a low plasticity clay located northeast of the interchange and a high plasticity silt located northwest of the interchange.

The natural moisture content of the Alluvium - Peat was tested in 7No. samples and showed a range of 15% to 599% with a mean of 216% as shown in Figure E2. 4No. of these values exceeded 100%. These values were from:

- 135% for WS-P12B at 1.2m in a sample from a layer described as fibrous peat.
- 280% for WS-N13 at 2m in a sample from a layer described as fibrous peat.
- 414% for WS-P12B at 5m in a sample from a layer described as pseudo-fibrous peat.
- 599% for WS-P12B 3.5m in a sample from a layer described as pseudo-fibrous peat.

The calculated value of I_c based on the laboratory test results ranges from 0.56 to 0.85 with an average of 0.70, indicating a firm material. The material descriptions describe a 'very soft to firm' material indicating these samples lay at the firmer end of these descriptions.

Organic matter content was derived for 7No. samples of Alluvium - Peat. The organic matter ranged from 1.6% w/w to 95.5% w/w with a mean value of 31.31% w/w.

Bulk density was determined by 1No. consolidation test. The result was 1.95Mg/m^3 , providing a unit weight of 19.13kN/m^3 . With reference to Carter and Bentley (2016) these values are broadly consistent with normally consolidated clays (1.80Mg/m^3 to 2.2Mg/m^3). This test result came from a sample of 'firm peat' and is not representative of the soft, spongy, dark brown fibrous and pseudo-fibrous PEAT encountered during the ground investigation. Therefore, a lower bulk density will be stated for the Alluvium - Peat of 1.12Mg/m^3 , equating to a derived weight density of 10kN/m^3 .

5.2.10.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 62-74% depending on each SPT hammer used. 8No. SPTs were undertaken within the Alluvium - Peat as part of the ground investigations. The SPT N_{60} values range from 0 to 4 with a mean of 1. The results are shown on Figure E4.

5.2.10.4 Undrained Shear Strength

Undrained shear strength results for the Alluvium - Peat were measured from 1No. laboratory shear vanes with a result of 20kN/m^2 . This was from a sample of 'firm Peat'.

The undrained shear strength of the material was derived from SPT N_{60} values based on the work of Stroud and Butler (1975) and taking an f_1 value of 6.97, based on a mean plasticity index of 14. The f_1 value is derived from 2No. plasticity index tests. Calculated S_u values ranged from 0kN/m^2 to 28kN/m^2 with a mean of 4kN/m^2 . The results are shown on Figure E5.

Based on the available data, a derived value of 5kN/m^2 is considered appropriate for the Alluvium - Peat. Due to the limited dataset of values gathered across the Scheme a conservative value has been taken.

5.2.10.5 Effective Shear Strength

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi^{cvk} = (42^\circ - 12.5\log_{10}I_p)$. Based on 2No. tests of plasticity a range from 24° to 28° with a mean of 26° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (13% to 29%), using correlations published by Gibson (1953) and gave values of $\phi'p$ of between 27° to 32° and residual values ($\phi'r$) of between 21° to 27° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the available data it is considered that the derived values of effective shear strength for the Alluvium - Peat for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$
- Effective peak angle of shearing resistance: $\phi' = 20^\circ$

5.2.10.6 Compression and Consolidation

1No. oedometer tests have been carried out on samples of Alluvium - Peat. This test directly measured 1No. values of m_v and gave results ranging of $0.42\text{m}^2/\text{MN}$. This classifies the Alluvium - Peat as a material of high compressibility according to Carter and Bentley (2016).

The material is considered to be of high compressibility and the value derived above is not representative of 'fibrous Peat'. A larger value of m_v is recommended for design of $1.5\text{m}^2/\text{MN}$ for the Alluvium - Peat which represents a high compressibility material. Although it may be preferable to determine m_v locally at detailed design.

The coefficient of consolidation was calculated using the log time method. A value for 1No. Alluvium - Peat test result taken over 100kPa was $1.2\text{m}^2/\text{year}$.

Due to the limited dataset tested, the laboratory testing may not accurately represent the in-situ field permeability and as such actual rates of consolidation may be greater than reported. For this reason, the c_v values will be determined locally during detailed design.

5.2.10.7 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.40 for an intermediate plasticity clay, this was seen as an intermediate between the 2No. samples described above.

The Young's Modulus for the Alluvium - Peat was calculated from Skempton and Bjerrum (1957) as: $1/m_v$ giving a value of 0.67MPa .

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 2.5MPa . The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 1.5MPa .

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0° .

5.2.11 Alluvium - Cohesive

5.2.11.1 Field Observation and Consistency Index

The available borehole logs describe the deposits as 'very soft to firm. The material description equates to an I_c of <0.25 to 0.75 in accordance with BS EN ISO 14688-2:2017.

5.2.11.2 Classification Tests

PSD tests were carried out on 28No. samples of Alluvium - Cohesive. The results are presented on Figure E1 and generally classify the material as a 'clayey sandy SILT'. The material sampled is quite varied and this is typical of the cohesive descriptions.

Plasticity Tests were carried out on 64No. samples of Alluvium - Cohesive. The liquid limit and plastic limit of the samples ranged from 20% to 51% and 11% to 29% respectively. The mean liquid and plastic limit were 33% and 29% respectively. The plasticity index ranged from 3 to 28 with a mean value of 14. The plasticity data is displayed on Figure E2. The plasticity chart in Figure E3 indicates the material comprises a largely low to intermediate plasticity clay. A few of the values lie outside of this range and indicate a low to high plasticity silt, with one value lying within the high plasticity clay range. 2No. of the 3No. low plasticity silts were identified in the mapped Peat northeast of the interchange, with the remainder of the silts located in the mapped Peat identified northwest of the interchange.

The natural moisture content of the Alluvium - Cohesive was tested in 66No. samples and showed a range of 12.4% to 39.6% with a mean of 23% as shown in Figure E2.

BH-N11 at 0.1m also identified a moisture content of 66.5% that was likely moisture from rainfall or the environment at the time as the point is too shallow to be representative of the material as a whole.

The calculated value of I_c based on the laboratory test results ranges from -0.60 to 1.97 with an average of 0.61, indicating a firm material. This is typical of the material descriptions. 4No. samples identified negative values of I_c . A negative value is indicative of material that has a natural water content greater than its liquid limit and therefore indicates the material behaves like a liquid. These deposits were as follows:

- BH-N21, I_c of -0.20, at 3m in a sample of soft silt, located northeast of the interchange.
- WS-N06, I_c of -0.50, at 5m in a sample of soft silt, located northeast of the interchange.
- WS-N09, I_c of -0.11, at 3m in a sample of interbedded clay and silt, located northeast of the interchange.
- WS-P12B, I_c of -0.60, at 5.8m in a sample of very soft clay, located northwest of the interchange.

Organic matter content was derived for 16No. samples of Alluvium - Cohesive. The organic matter ranged from 0.8% w/w to 10.7% w/w with a mean value of 3.12% w/w.

Bulk density was determined by 4No. consolidation tests and 4No. Triaxial Tests. The results ranged from 1.84Mg/m³ to 2.22Mg/m³, with the mean bulk density coming to 2.03Mg/m³, providing a unit weight of 19.91kN/m³. With reference to Carter and Bentley (2016) these values are broadly consistent with normally consolidated clays (1.80Mg/m³ to 2.2Mg/m³).

Using all of the above information, a bulk density of 1.94Mg/m³, equating to a derived weight density of 19kN/m³, is considered appropriate.

5.2.11.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 62-79% depending on each SPT hammer used. 50No. SPTs were undertaken within the Alluvium - Cohesive as part of the ground investigations. The SPT N_{60} values range from 0 to 48 with a mean of 12. The results are shown on Figure E4.

The majority of The data is shallow and gives an SPT N value between 4 to 15, with isolated points outwith of that. Subsection 4.3.3 described the variability of the materials assigned to the unit and although some of the material was identified as medium dense, these are not the material identified by the large SPT N values. On review these larger values were found to come from

material described as very soft to soft clays, with a reference to a sand or low cobble content constituent, which could be further evidence of the variability shown by this unit.

5.2.11.4 Undrained Shear Strength

Undrained shear strength results for the Alluvium – Cohesive were measured from 4No. quick undrained triaxial tests with the results ranging from 37kN/m² to 87kN/m² with a mean of 56kN/m². Undrained shear strength results for the Alluvium – Cohesive were measured from 2No. laboratory shear vanes with the results ranging from 56kN/m² to 60kN/m² with a mean of 58kN/m².

The undrained shear strength of the material was derived from SPT N₆₀ values based on the work of Stroud and Butler (1975) and taking an f₁ value of 7.11, based on a mean plasticity index of 13.6. The f₁ value is derived from 48No. plasticity index tests. Calculated Su values ranged from 0kN/m² to 306kN/m² with a mean of 72kN/m². The results are shown on Figure E5.

Based on the available data, a derived value of 35kN/m² is considered appropriate for the Alluvium - Cohesive. Due to the varied dataset and the broad similarity between the SPT, shear vane and triaxial results a conservative value has been chosen.

5.2.11.5 Effective Shear Strength

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5 \log_{10} I_p)$. Based on 48No. tests of plasticity a range from 24° to 36° with a mean of 28° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (3% to 28%), using correlations published by Gibson (1953) and gave values of ϕ'_p of between 27° to 35° and residual values (ϕ'_r) of between 21° to 31° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the available data it is considered that the derived values of effective shear strength for the Alluvium – Cohesive for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$
- Effective peak angle of shearing resistance: $\phi' = 24^\circ$

5.2.11.6 Compression and Consolidation

4No. oedometer tests have been carried out on samples of Alluvium - Cohesive. These tests directly measured 4No. values of m_v and gave results ranging from 0.39m²/MN to 0.77m²/MN with a mean of 0.63m²/MN. This classifies the Alluvium – Cohesive as a material of high compressibility according to Carter and Bentley (2016).

For the purpose of design, the material is considered to be of high compressibility and a moderately conservative value of 0.6m²/MN is recommended. Although it may be preferable to determine m_v locally at detailed design.

The coefficient of consolidation was calculated using the log time method. Values for 5No. Alluvium – Cohesive test results taken over 100kPa ranged from 1m²/year to 12m²/year with a mean of 5.16m²/year.

The laboratory testing may not accurately represent the in-situ field permeability and as such actual rates of consolidation may be greater than reported. Due to the variability of c_v values, they will be determined locally during detailed design.

5.2.11.7 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.40 for an intermediate plasticity clay.

The Young's Modulus for the Alluvium – Cohesive was calculated from Skempton and Bjerrum (1957) as: $1/m_v$ giving a value of 3.3Mpa.

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 17.5Mpa. The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 10.5Mpa.

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0° .

5.2.12 Alluvium - Granular

5.2.12.1 Field Observation and Density Index

The available borehole logs describe the deposits as 'loose to medium dense'. The material description equates to an I_D between 15 to 65% in accordance with BS EN ISO 14688-2:2017.

5.2.12.2 Classification Tests

PSD tests were carried out on 23No. samples of granular layers in the Alluvium. The results are presented on Figure F1 and generally classify the material as a 'silty fine to medium SAND, some described as gravelly. One sample is a silty, sandy GRAVEL'.

The natural moisture content of the Alluvium – Granular was tested in 2No. samples and showed a range of 12.3% to 28% with a mean of 20.2%, as shown in Figure E2.

Bulk density was not determined for the granular layers in the Alluvium. Based on the material description, reference has been made to Carter and Bentley (2016). A 'loose to medium dense' material indicates a bulk density of 1.80Mg/m^3 to 2.00Mg/m^3 . Due to the variability seen in this material a conservative value has been taken. Using this information, a bulk density of 1.94Mg/m^3 , equating to a derived weight density of 19.0kN/m^3 , is considered appropriate.

5.2.12.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give $(N_1)_{60}$ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (Er) of 62-79% depending on each SPT hammer used. The 28No. SPT $(N_1)_{60}$ values range from 3 to 62 with a mean of 19.7. This correlates with the I_D of medium dense material. This matches with the denser material from the borehole logs, which identified 'loose to medium dense' material. The results are shown on Figure F2.

5.2.12.4 Effective Shear Strength

Effective shear strength testing was carried out on 4No. sample of the granular layers in the Alluvium using small shear box testing, with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') ranging from 39° to 55° with a mean of 49° .

The interpretation of the 28No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 28° to 46° with a mean of 34° .

The derived value has been given as 34° , this value represents the results seen from the SPT correlation but is less than values given in the shear box.

5.2.12.5 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to very dense based on field descriptions an SPT N of 12 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 10.8Mpa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 3° .

5.2.13 Glaciolacustrine Deposits

5.2.13.1 Field Observation and Consistency Index

Only 1No. borehole log identified the Glaciolacustrine Deposits. The available log describes the deposits as 'soft and firm'. The material description equates to an I_c between 0.25 to 0.75 in accordance with BS EN ISO 14688-2:2017.

5.2.13.2 Classification Tests

1No. particle size distribution test was undertaken on the Glaciolacustrine Deposits. The plot in Figure G1 shows a slightly sandy, slightly gravelly, clayey SILT.

Plasticity Tests were carried out on 3No. samples of Glaciolacustrine Deposits. The liquid limit and plastic limit of the samples ranged from 26% to 45% and 16% to 23% respectively. The mean liquid and plastic limit were 38% and 19% respectively. The plasticity index ranged from 10 to 28 with a mean value of 19. The plasticity data is displayed on Figure G2. The plasticity chart in Figure G3 indicates the material comprises a low to intermediate plasticity clay, plotting above the A line.

The natural moisture content of the Glaciolacustrine Deposits was tested in 5No. samples and showed a range of 21.1% to 29.9% with a mean of 25.2%, as shown in Figure G2.

The calculated value of I_c based on the laboratory test results ranges from 0.11 to 0.85 with an average of 0.54, indicating a firm material, this is at the firmer end of the material description given in the borehole logs.

Bulk density was determined by 1No. consolidation tests and 1No. Triaxial Tests. The results ranged from 2.1Mg/m^3 to 2.11Mg/m^3 , with the mean bulk density coming to 2.11Mg/m^3 , providing a unit weight of 20.70kN/m^3 . With reference to Carter and Bentley (2016) these values are broadly consistent with normally consolidated clays (1.80Mg/m^3 to 2.20Mg/m^3). However, the dataset is limited, and the material description also identified soft material which would be more consistent with soft, open structured clays (1.70Mg/m^3 to 1.90Mg/m^3). Using all of the above information, a bulk density of 1.94Mg/m^3 , equating to a derived weight density of 19.0kN/m^3 , is considered appropriate.

5.2.13.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 67% for the SPT hammer used. 2No. SPTs were undertaken within the Glaciolacustrine Deposits as part of the ground investigations. The SPT N_{60} values were both 10.

5.2.13.4 Undrained Shear Strength

Undrained shear strength results for the Glaciolacustrine Deposits were measured from 3No. quick undrained triaxial tests with the results ranging from 48kN/m² to 54kN/m² with a mean of 51kN/m².

The undrained shear strength of the material was derived from SPT N₆₀ values based on the work of Stroud and Butler (1975) and taking an f₁ value of 5.64, based on a mean plasticity index of 19.3. 2No. calculated Su values were both 51kN/m². The results are shown on Figure G4.

Based on the available data, a derived value of 50kN/m² is considered appropriate for the Glaciolacustrine Deposits. Due to the limited dataset of values gathered across the Scheme a conservative value has been taken. The broad similarity between the triaxial and the SPT results demonstrates the consistency at this location.

5.2.13.5 Effective Shear Strength

No effective strength testing was undertaken for the Glaciolacustrine Deposits. Estimates have been determined from plasticity data.

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5 \log_{10} I_p)$. Based on 3No. tests of plasticity a range from 24° to 30° with a mean of 26° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (10% to 28%), using correlations published by Gibson (1953) and gave values of ϕ'_p between 29° to 33° and residual values (ϕ'_r) of between 18° to 27° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the available data it is considered that the derived values of effective shear strength for the Glaciolacustrine Deposits for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$
- Effective peak angle of shearing resistance: $\phi' = 26^\circ$

5.2.13.6 Compression and Consolidation

1No. oedometer test was carried out the Glaciolacustrine Deposits. This test directly measured 1No. value of m_v of 0.62 m²/MN. This classifies the Glaciolacustrine Deposits as a material of high compressibility according to Carter and Bentley (2016).

Using the correlation between set out by Stroud and Butler in Carter and Bentley (2016) it is possible to correlate SPT and plasticity index to estimate m_v . 2No. SPTs were correlated with an average plasticity index of 19.3 for the Glaciolacustrine Deposits. The m_v value calculated was 0.2m²/MN.

For the purpose of design the material is considered to be of medium compressibility and a moderately conservative value of 0.3m²/MN is recommended, although it may be preferable to determine m_v locally at detailed design.

The coefficient of consolidation was calculated using the log time method. Values for 2No. Glaciolacustrine Deposits test results taken over 100kPa ranged from 1.9m²/year to 3.1m²/year with a mean of 2.5m²/year.

The laboratory testing may not accurately represent the in-situ field permeability and as such actual rates of consolidation may be greater than reported. Due to the variability of c_v values, they will be determined locally during detailed design.

5.2.13.7 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.40 for an intermediate plasticity clay.

The Young's Modulus for the Glaciolacustrine Deposits was calculated from Skempton and Bjerrum (1957) as: $1/m_v$ giving a value of 3.3Mpa.

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 25Mpa. The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 15Mpa.

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0° .

5.2.14 Hummocky Glacial Deposits

5.2.14.1 Field Observation, Consistency Index and Density Index

The available borehole logs describe the deposits across the outcrops where it is present as 'loose' and 'medium dense becoming very dense'. The material description equates to an I_D between 15 to 35% and 35 to 100% respectively.

The material description also includes a reference to frequent soft clay bands, which equates to I_c between 0.25 to 0.50 in accordance with BS EN ISO 14688-2:2017.

5.2.14.2 Classification Tests

PSD tests were carried out on 2No. samples of Hummocky Glacial Deposits. The results are presented on Figure H1 and generally classify the material as a "sandy SILT" or a "slightly silty medium grained SAND".

The natural moisture content of the Hummocky Glacial Deposits was tested in 2No. samples and showed a range of 7% to 21% with a mean of 14%.

Bulk density was determined by 1No. consolidation test, with a result of $2.14/m^3$, providing a unit weight of $20.99kN/m^3$. With reference to Carter and Bentley (2016) this value is broadly consistent with normally consolidated clays ($1.80Mg/m^3$ to $2.20Mg/m^3$) and dense sands and gravels ($2.00Mg/m^3$ to $2.20Mg/m^3$). However, the dataset is limited, and the material description also identified loose material which would be more consistent bulk density values of $1.80Mg/m^3$ to $1.90Mg/m^3$. Using all of the above information, and due to the variability within the material, a bulk density of $2.04Mg/m^3$, equating to a derived weight density of $20.0kN/m^3$, is considered appropriate.

5.2.14.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 49-70% depending on each SPT hammer used. 11No. SPTs were undertaken within the Hummocky Glacial Deposits as part of the ground investigations. The 11No. SPT (N_1)₆₀ values range from 11 to 33 with a mean of 20. This correlates with the I_D of medium dense material. Some of the material identified in the borehole logs was 'medium dense', the range of material also included 'loose' and 'dense'. Figure H2 shows there is a general increase with depth.

5.2.14.4 Effective Shear Strength

Effective shear strength testing was carried out on 1No. sample of Hummocky Glacial Deposits using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') of 32.5°.

The interpretation of the 11No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 30° to 39° with a mean of 34°.

The derived value has been given as 33°, this value represents the results seen from the shear box and is slightly conservative when looking at the SPT correlation.

5.2.14.5 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to medium dense based on field descriptions an SPT N of 13 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 11.7Mpa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 3°.

5.2.15 Glaciofluvial Deposits

5.2.15.1 Field Observation, Consistency Index and Density Index

The available borehole logs describe the deposits as 'loose to medium dense', this gives an I_D between 15 to 65%.

The material description also includes a reference to a 'firm' silt layer which give an I_c between 0.50 to 0.75.

5.2.15.2 Classification Tests

PSD tests were carried out on 10No. samples of Glaciofluvial Deposits. The results are presented on Figure I1 and generally classify the material as slightly silty, fine to medium grained SAND. Some of the material is slightly gravelly. One plot shows a slightly sandy GRAVEL.

The natural moisture content of the Glaciofluvial Deposits was tested in 1No. samples and showed a value of 25.7%.

Bulk density was not determined for the Glaciofluvial Deposits. Based on the material description, reference has been made to Carter and Bentley (2016). A 'loose to medium dense' material indicates a bulk density of 1.80Mg/m³ to 2.00Mg/m³. Using this information, a bulk density of 2.04Mg/m³, equating to a derived weight density of 20.0kN/m³, is considered appropriate.

5.2.15.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give $(N_1)_{60}$ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (E_r) of 64-74% depending on each SPT hammer used. 24No. SPTs were undertaken within the Glaciofluvial Deposits as part of the ground investigations. 23No. SPT $(N_1)_{60}$ values range from 9 to 46 with a mean of 21. This correlates with the I_D of medium dense material which sits at the denser end of the borehole logs descriptions of 'loose to medium' dense. Figure I2 shows there is a general increase in correlation with depth.

There was 1No. SPT N_{60} value of 17.3, undertaken in the silt layer detailed above.

5.2.15.4 Effective Shear Strength

Effective shear strength testing was carried out on 3No. sample of Glaciofluvial Deposits using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') ranging from 38° to 42° with a mean of 41°.

The interpretation of the 24No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 29° to 42° with a mean of 34°.

The derived value has been given as 34°, this value is lower than the few results seen from the shear box but fits well within the range given from the SPT correlation.

5.2.15.5 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to dense based on field descriptions an SPT N of 13 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 11.7Mpa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 3°.

5.2.16 Glaciofluvial Ice Contact Deposits

The Glaciofluvial Ice Contact Deposits are predominantly granular but contain a minor cohesive component. Parameters have been given for the relevant granular and cohesive portions.

5.2.16.1 Field Observation, Consistency Index and Density Index

5.2.16.1.1 Granular Portion

The available borehole logs describe the deposits as 'loose to medium dense' this gives an I_D between 15 to 65%, in accordance with BS EN ISO 14688-2:2017.

5.2.16.1.2 Cohesive Portion

The material description also a minor component of soft to stiff clay which give an I_c between 0.25 to 1.00.

5.2.16.2 Classification Tests

PSD tests were carried out on 78No. samples of Glaciofluvial Ice Contact Deposits. The results are presented on Figure J1 and generally classify the material as 'slightly silty, fine to coarse SAND' and 'slightly silty, sandy GRAVEL'. This matches the 2No. types of granular material described on the borehole logs. A minor cohesive component was described in the logging and some testing has been undertaken on samples within these layers, however the PSD does not show a large amount of cohesive material, the largest plot shows approximately 20%. This indicates how minor the cohesive layers are within this unit.

5.2.16.2.1 Granular Portion

The natural moisture content of the granular portion of the Glaciofluvial Ice Contact Deposits was tested in 2No. samples and showed a range of 17% to 27.7% with a mean of 22.35%, as shown in

Figure J2. Due to the limited dataset and the similarity of the values, the natural moisture content has been grouped together.

Bulk density was not determined for any granular samples of the Glaciofluvial Ice Contact Deposits. Based on the material description, reference has been made to Carter and Bentley (2016). A 'loose to medium dense' material indicates a bulk density of 1.80Mg/m³ to 2.00Mg/m³. Using this information, a bulk density of 2.04Mg/m³, equating to a derived weight density of 20.0kN/m³, is considered appropriate.

5.2.16.2.2 Cohesive Portion

The natural moisture content of the cohesive portion of the Glaciofluvial Ice Contact Deposits was tested in 4No. samples and showed a range of 12.3% to 30.8% with a mean of 23.68%, as shown in Figure J2. Due to the limited dataset and the similarity of the values, the natural moisture content has been grouped together.

Bulk density was not determined for any cohesive samples of the Glaciofluvial Ice Contact Deposits. Based on the material description, reference has been made to Carter and Bentley (2016). A 'soft to stiff' material indicates a bulk density of 1.70Mg/m³ to 2.20Mg/m³. Due to the large range identified, a bulk density of 2.04Mg/m³, equating to a derived weight density of 20.0kN/m³, is considered appropriate.

Plasticity Tests were carried out on 4No. samples of Glaciofluvial Ice Contact Deposits. The liquid limit and plastic limit of the samples ranged from 30% to 36% and 17% to 19% respectively. The mean liquid and plastic limit were 33% and 18% respectively. The plasticity index ranged from 12 to 18 with a mean value of 15. The plasticity data is displayed on Figure J2. The plasticity chart in Figure J3 indicates the material comprises a low to intermediate plasticity clay, plotting above the A line.

The calculated value of I_c based on the laboratory test results ranges from 0.21 to 1.31 with an average of 0.61, indicating a firm material, this is within the range stated for the cohesive component from the material description.

5.2.16.3 Standard Penetration Tests

5.2.16.3.1 Granular Portion

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give (N₁)₆₀ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (Er) of 58-74% depending on each SPT hammer used. 178No. SPTs were undertaken within the Glaciofluvial Ice Contact Deposits as part of the ground investigations. 172No. SPT (N₁)₆₀ values range from 4 to 147 with a mean of 23.5. This correlates with the I_D of medium dense material which sits at the denser end of the borehole logs descriptions of 'loose to medium' dense. As shown in Figure J4.

5.2.16.3.2 Cohesive Portion

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N₆₀ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (Er) of 64-74% depending on each SPT hammer used. 178No. SPTs were undertaken within the Glaciofluvial Ice Contact Deposits as part of the ground investigations. 6No. SPT N₆₀ values were undertaken on cohesive layers with the results ranging from 11 to 53 with a mean of 24. As shown in Figure J4.

5.2.16.4 Undrained Shear Strength

5.2.16.4.1 Cohesive Portion

1No. undrained shear strength result for the cohesive portion of the Glaciofluvial Ice Contact Deposits was measured from 1No. laboratory shear vane test with a results of 83kN/m².

The undrained shear strength of the material was derived from SPT N₆₀ values based on the work of Stroud and Butler (1975) and taking an f₁ value of 6.66, based on a mean plasticity index of 15. 6No. calculated Su values ranged from 67kN/m² to 304kN/m² with a mean of 139kN/m². The results are shown on Figure J5.

Based on the available data, a derived value of 50kN/m² is considered appropriate for the Glaciofluvial Ice Contact Deposits. Although this value is lower than those derived from the shear vane and the SPT correlation, consideration has been made to the log descriptions which include 'soft' material. Additionally, the dataset is limited and therefore a conservative value has been taken.

5.2.16.5 Effective Shear Strength

5.2.16.5.1 Granular Portion

Effective shear strength testing was carried out on 17No. samples of the granular portion of the Glaciofluvial Ice Contact Deposits using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') ranging from 33° to 51.5° with a mean of 40°.

The interpretation of the 172No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 27° to 48° with a mean of 35°.

The derived value has been given as 35°, this value represents the results seen from the shear box and the SPT correlation.

5.2.16.5.2 Cohesive Portion

No effective strength testing was undertaken for the cohesive portion of the Glaciofluvial Ice Contact Deposits. Estimates have been determined from plasticity data.

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5 \log_{10} I_p)$. Based on 4No. tests of plasticity a range from 26° to 29° with a mean of 27° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (12% to 18%), using correlations published by Gibson (1953) and gave values of ϕ'_p between 30° to 32° and residual values (ϕ'_r) of between 18° to 23° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the limited available data it is considered that the derived values of effective shear strength for the Glaciofluvial Ice Contact Deposits for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$
- Effective peak angle of shearing resistance: $\phi' = 27^\circ$

5.2.16.6 Compression and Consolidation

5.2.16.6.1 Cohesive Portion

No oedometer tests were undertaken on the Glaciofluvial Ice Contact Deposits to determine the coefficient of compressibility (m_v) and coefficient of consolidation (c_v).

Using the correlation between set out by Stroud and Butler in Carter and Bentley (2016) it is possible to correlate SPT and plasticity index to estimate m_v . A total of 6No. SPTs were correlated with the average plasticity index of 15 for the Glaciofluvial Ice Contact Deposits. The m_v values calculated ranged from $0.04\text{m}^2/\text{MN}$ to $0.16\text{m}^2/\text{MN}$ with an average SPT correlated m_v of $0.10\text{m}^2/\text{MN}$.

For the purpose of design, the material is considered to be of medium compressibility and a moderately conservative value of $0.2\text{m}^2/\text{MN}$ is recommended due to the limited dataset tested. Although it may be preferable to determine m_v locally at detailed design.

Likewise, c_v will be determined locally during detailed design.

5.2.16.7 Elastic Properties

5.2.16.7.1 Granular

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to very dense based on field descriptions an SPT N of 13 has been adopted for this material. Based on the relationship outlined in CIRIA 143, a value of 11.7Mpa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 3° .

5.2.16.7.2 Cohesive

Poisson's ratio was derived from Look (2007) as 0.35 for a low plasticity clay.

The Young's Modulus for the Glaciofluvial Ice Contact Deposits was calculated from Skempton and Bjerrum (1957) as: $1/m_v$ giving a value of 5Mpa.

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 37.50Mpa. The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 22.50Mpa.

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0° .

5.2.17 Glacial Till Cohesive

5.2.17.1 Field Observation and Consistency Index

The available borehole logs describe the cohesive deposits as 'firm to very stiff' which give an I_c between 0.50 to >1.00 in accordance with BS EN ISO 14688-2:2017. A shallow weathered zone comprising 'soft to firm' material gives an I_c between 0.25 to >0.75 .

5.2.17.2 Classification Tests

PSD tests were carried out on 140No. samples of the cohesive Glacial Till. The results are presented on Figure K1 and generally classify the material as a 'sandy, gravelly CLAY' and a 'sandy, gravelly SILT'.

Plasticity Tests were carried out on 271No. samples of cohesive Glacial Till. The liquid limit and plastic limit of the samples ranged from 16% to 56% and 10% to 25% respectively. The mean liquid and plastic limit were 32.5% and 16.2% respectively. The plasticity index ranged from 0 to 35 with a mean value of 16.2. The plasticity data is displayed on Figure K2. The plasticity chart in Figure K3 indicates the material comprises a low to high plasticity clay. A couple of values fall outside and indicate the material lies within the range for a low to intermediate plasticity silt. This was matched in some of the material description which describes a low portion of the material as silt.

The natural moisture content of the cohesive Glacial Till was tested in 416no. Samples and showed a range of 3.9% to 37.2% with a mean of 18.4%, as shown in Figure K2.

The calculated value of I_c based on the laboratory test results ranges from -1.02 to 2.50 with an average of 0.83, indicating a stiff material, this is within the range of the majority of the cohesive Glacial Till material. It does not accommodate for the shallow weathered zone.

4No. negative I_c values were identified, these were:

- BH04 at 17.7m with an I_c value of -1.02. Material at this depth is described as firm brown slightly sandy low plasticity CLAY.
- BH12 at 27.7m with an I_c value of -0.57. Material at this depth is described as firm grey sandy low plasticity CLAY.
- WS-N16 at 3.6m with an I_c value of -0.13. Material at this depth is described as stiff, slightly sandy, slightly gravelly CLAY.
- BH10A at 2.2m with an I_c value of -0.15. Material at this depth is described as firm thinly laminated sandy low plasticity CLAY.

When the range was recalculated without these values, the results ranged from 0.06 to 2.50 with an average of 0.85 which is similar to the average calculated above. The presence of the negative I_c values is unknown as is not typical of Glacial Till. It is possible water was added to the boreholes during construction and this has been captured when samples have been taken.

Bulk density was determined by 12No. consolidation tests and 113No. Triaxial Tests. The results ranged from 1.5Mg/m^3 to 2.35Mg/m^3 , with the mean bulk density coming to 2.15Mg/m^3 , providing a unit weight of 21.01kN/m^3 . With reference to Carter and Bentley (2016) these values are broadly consistent with unconsolidated muds (1.60Mg/m^3 to 1.70Mg/m^3) to glacial till (boulder clay) (2.00Mg/m^3 to 2.40Mg/m^3). The value of 1.5Mg/m^3 is a single, anomalous value, and removing that values increase the minimum result to 1.76Mg/m^3 which is typically of a soft, open structured clay (1.70Mg/m^3 to 1.90Mg/m^3) and more consistent with some of the shallow weathered material and softer layers at depth in the unit. The average remains similar. Using all of the above information, a bulk density of 2.09Mg/m^3 , equating to a derived weight density of 20.5kN/m^3 , is considered appropriate.

5.2.17.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give N_{60} values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (Er) of 49-79% depending on each SPT hammer used. 361No. SPTs were undertaken within the cohesive Glacial Till as part of the ground investigations. The SPT N_{60} values range from 1 to 66 with a mean of 30, as shown in Figure K4. The figure shows there is a wide spread of data, but there appears to be a general increase with depth.

5.2.17.4 Undrained Shear Strength

Undrained shear strength results for the cohesive Glacial Till were measured from 120No. quick undrained triaxial tests with the results ranging from 22kN/m² to 460kN/m² with a mean of 145kN/m². The smaller values typically representative of material described as soft to firm, and the larger values typically from material described as stiff to very stiff. Undrained shear strength results for the cohesive Glacial Till were measured from 9No. laboratory shear vanes with the results ranging from 9kN/m² to 207kN/m² with a mean of 70kN/m². The smaller values typically representative of material described as soft to firm, and the larger values typically from material described as stiff.

The undrained shear strength of the material was derived from SPT N₆₀ values based on the work of Stroud and Butler (1975) and taking an f₁ value of 6.37, based on a mean plasticity index of 16. Calculated S_u values ranged from 6kN/m² to 331kN/m² with a mean of 174kN/m². The results are shown on Figure K5.

A design value of 50kN/m² at ground level increasing by 2.5kN/m² per m will be used.

A range of values is considered appropriate due to the varying strength of the glacial till with depth and this assessment is based first on the direct measurements collected on class 1 samples by laboratory methods and influenced by the supporting information gained from the SPT correlation and the laboratory shear vanes.

5.2.17.5 Effective Shear Strength

Effective shear strength testing was carried out on 1No. sample of cohesive Glacial Till using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') of 44.5°.

Reference to BS8004:2015+A1:2020 suggests that the constant volume effective shearing resistance can be estimated based on $\phi'_{cvk} = (42^\circ - 12.5 \log_{10} I_p)$. Based on 270No. tests of plasticity a range from 23° to 42° with a mean of 27° was established.

Estimates of the peak angle of friction have been determined from the plasticity indices (0% to 35%), using correlations published by Gibson (1953) and gave values of ϕ'_p of between 24° to 36° and residual values (ϕ'_r) of between 18° to 32° respectively.

For the purposes of design, it is considered appropriate to conservatively assume that the cohesion (c') is zero. Based on the available data it is considered that the derived values of effective shear strength for the cohesive Glacial Till for use in design may be taken as:

- Effective cohesion intercept: $c' = 0\text{kN/m}^2$
- Effective peak angle of shearing resistance: $\phi' = 27^\circ$

5.2.17.6 Compression and Consolidation

12No. oedometer tests have been carried out on samples of cohesive Glacial Till. These tests directly measured 12No. values of m_v and gave results ranging from 0.13m²/MN to 1.05m²/MN with a mean of 0.67m²/MN. This classifies the cohesive Glacial Till as a material of medium to high compressibility according to Carter and Bentley (2016).

Using the correlation between set out by Stroud and Butler in Carter and Bentley (2016) it is possible to correlate SPT and plasticity index to estimate m_v . A total of 301 SPTs were correlated with the average plasticity index of 16.2 for the cohesive Glacial Till. The m_v values calculated ranged from 0.03m²/MN to 1.64m²/MN with an average SPT correlated m_v of 0.09m²/MN.

For the purpose of design the material is considered to be of medium compressibility and a moderately conservative value of $0.2\text{m}^2/\text{MN}$ is recommended. This value is lower than those indicated by the laboratory testing however those values were higher than anticipated for Glacial Till and the design value takes into account the data from the SPT correlation. Although it may be preferable to determine m_v locally at detailed design.

The coefficient of consolidation was calculated using the log time method. Values for 14No. cohesive Glacial Till test results taken over 100kPa ranged from $1.4\text{m}^2/\text{year}$ to $4.3\text{m}^2/\text{year}$ with a mean of $2.5\text{m}^2/\text{year}$.

The laboratory testing may not accurately represent the in-situ field permeability and as such actual rates of consolidation may be greater than reported. Due to the variability of c_v values, they will be determined locally during detailed design.

5.2.17.7 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.40 for an intermediate plasticity clay.

The Young's Modulus for the made ground embankment fill was calculated from Skempton and Bjerrum (1957) as: $1/m_v$ giving a value of 3.3Mpa.

The undrained Young's modulus (E_u) has also been calculated using the relationship of $E_u = 500 \times C_u$, which gave a value of 25Mpa. The drained Young's Modulus (E') was calculated using the relationship $E' = 0.60 \times E_u$, giving a derived value of 15Mpa.

The angle of dilatancy (Ψ) for cohesive deposits is assumed to be 0° .

5.2.18 Glacial Till Granular

5.2.18.1 Field Observation and Density Index

The available borehole logs describe the granular Glacial Till as 'loose to medium dense' sand, which gives a equates to an I_D between 15 to 65% in accordance with BS EN ISO 14688-2:2017. The material also comprises 'medium dense to dense' gravel which gives an I_D between 35 to 85%.

5.2.18.2 Classification Tests

PSD tests were carried out on 68No. samples of granular Glacial Till. The results are presented on Figure L1 and generally classify the material as 'slightly silty, slightly gravelly fine to coarse SAND'. A lower portion of samples can be described 'slightly sandy GRAVEL'.

Although the Glacial Till has been split into a cohesive and a granular component, results have been returned for cohesive samples taken within the layers logged as granular. Rather than reassign these entire layers as cohesive, it has been decided to leave these layers as they were logged and instead highlight where this has occurred. These examples highlight the variability in the glacial material here at the site.

For example, plasticity tests were carried out on 7No. cohesive samples within the granular Glacial Till. The liquid limit and plastic limit of the samples ranged from 20% to 32% and 11% to 20% respectively. The mean liquid and plastic limit were 26% and 16% respectively. The plasticity index ranged from 4 to 17 with a mean value of 10. The plasticity data is displayed on Figure L2. The plasticity chart in Figure L3 indicates this cohesive material comprises low plasticity clay and silts.

The natural moisture content of the granular Glacial Till was tested in 19No. Samples and showed a range of 10.3% to 51.3% with a mean of 19%. As shown in Figure L2.

Bulk density was determined by 4No. Triaxial Tests. The results ranged from 2.23Mg/m³ to 2.38Mg/m³, with the mean bulk density coming to 2.30Mg/m³, providing a unit weight of 22.56kN/m³. With reference to Carter and Bentley (2016) these values are broadly consistent with very dense sands and gravel (2.20Mg/m³ to 2.30Mg/m³).

Although some of the material was described as dense, there was a portion of the material described as loose (1.80Mg/m³ to 1.90Mg/m³) to medium dense (1.90Mg/m³ to 2.00Mg/m³). The dataset is therefore limited considering the large range of material described. Using all of the above information, a bulk density of 2.04Mg/m³, equating to a derived weight density of 20.0kN/m³, is considered appropriate.

5.2.18.3 Standard Penetration Tests

The SPT N values were correlated to take in to account the energy ratio of the drilling equipment, to give (N₁)₆₀ values in accordance with BS EN ISO 22476-3:2005+A1:2011. The energy ratio correction is based on a measured energy ratio (Er) of 49-79% depending on each SPT hammer used. The 186No. SPT (N₁)₆₀ values range from 1 to 982 with a mean of 46.8. This correlates with the I_D of very dense material. This indicates the material is denser than the borehole descriptions of loose to medium dense' sand and medium dense to dense' gravel. The results are shown in Figure L4.

5.2.18.4 Undrained Shear Strength

Interestingly, as with the granular engineered fill described above, the granular samples of the Glacial Till also contain a large cohesive component to exhibit some cohesive properties. It is possible that these cohesive samples could be taken from clay lenses within the granular material. For example, it has been possible to undertaken 2No. triaxial tests on samples undertaken within granular layers. Su results ranged from 237kN/m² to 316kN/m² with an average of 275kN/m². These tests are included on Figure K5. An undrained shear strength will not be derived for this unit. The tests are:

- BH-N04A at 18m in a medium dense clayey silty sand.
- BH05 at 31.2m in a dense silty sand.

5.2.18.5 Effective Shear Strength

Effective shear strength testing was carried out on 7No. sample of granular Glacial Till using small shear box testing with the sample compacted with a vibrating hammer at natural moisture content. The result gave an effective angle of shearing resistance (ϕ') ranging from 29.5° to 39° with a mean of 35°.

The interpretation of the 193No. SPT N results with reference to Peck et al. (1974), suggests an effective angle of friction of between 27° to 48° with a mean of 35°.

The derived value has been given as 35°, this value represents the results seen from the shear box and the SPT correlation.

5.2.18.6 Elastic Properties

Poisson's ratio was derived from Look (2007) as 0.30 for sands.

SPT N values were calculated for drained Young's Modulus (E') using CIRIA 143, assuming the material to be loose to very dense based on field descriptions an SPT N of 20 has been adopted

for this material. Based on the relationship outlined in CIRIA 143, a value of 18Mpa has been derived, which is considered appropriate for design.

The angle of dilatancy (Ψ) was derived from BS8004:2015 using the I_D as 6° .

5.2.19 Pennine Coal Measures

A summary of the fracture index, total core recovery, solid core recovery and rock quality designation are summarised for each material in Table 5-1.

Table 5-1 Rock Core Details

Borehole ID	Rock Type	Fracture Index	Total Core Recovery	Solid Core Recovery	Rock Quality Designation
BH-G01	Siltstone	10-85	100-100	0-80	0-73
	Mudstone	40-80	100-100	0-67	0-7
BH-G02	Mudstone	20-85	33-100	0-73	0-31
BH-G10	Sandstone	14-30	67-100	57-100	0-10
BH-N05A	Sandstone	2-12	100-100	90-100	40-100
BH-N06C	Sandstone	7	73	60	40

BH-G01, BH-G10 and BH-G02 are located on the M66 north of Simister Island interchange. BH-N05A and BH-N06C are respectively located 130m and 140m northeast from the Bradley Fold Fault. There does not appear to be an obvious reduction in the rock core values in proximity to the fault. Generally, across the site, the total core recovery is quite good, however smaller values are given for the RQD. From a review of the data there does not appear to be a pattern associated with proximity to faulting or with depth in relation to the variation in the values.

5.2.19.1 Unconfined Compressive Strength

5.2.19.1.1 Siltstone

Unconfined Compressive Strength (UCS) testing was carried out on 1No. samples of the siltstone encountered on the Scheme. The result was 9.84Mpa.

Point Load tests were undertaken on 10No. samples of siltstone, of which 4No. were axial tests, 5No. were diametral tests and 1No. were irregular tests. The results are given as a Point Load Index, $I_s(50)$, which is a factored result to allow for variances in volume.

The axial point load tests produced Point Load Index values in the range of 0.03Mpa to 0.47Mpa with a mean value of 0.24Mpa. Diametral results were in the range 0.03Mpa to 0.64Mpa with a mean of 0.25Mpa, and the irregular test result was 0.03Mpa. The low values are anticipated as only the top weathered part of the bedrock was investigated during the ground investigation.

The UCS has been estimated from the corrected Point Load $I_s(50)$ test results using a factor of 24 (Tomlinson, 2001). This gave axial results of 0.72Mpa to 11.28Mpa with a mean of 5.70Mpa. Diametral results were in the range 0.72Mpa to 15.36Mpa with a mean of 6.10Mpa, and the irregular test was 0.72Mpa.

Values of UCS from direct testing and point load correlations are shown on Figure M1. From the limited dataset available, there does appear to be an apparent increase in UCS with depth.

A characteristic value of 6Mpa has been identified for design.

It should be noted that UCS testing was only possible on intact cores and therefore samples tested are representative of stronger bands within the overall rock mass. Point Load tests are possible on smaller lengths of core, however again these represent stronger bands within the rock mass. However, UCS and Point Load tests generally only represent intact strength rather than that of the rock mass.

5.2.19.1.2 Sandstone

UCS testing was carried out on 4No. samples of the sandstone encountered on the Scheme. Results ranged from 5.51Mpa to 19.2Mpa with a mean of 9.85Mpa.

Point Load tests were undertaken on 22No. samples of the sandstone, of which 9No. were axial tests, 11No. were diametral tests and 2No. were irregular tests.

The axial point load tests produced Point Load Index values in the range of 0.01Mpa to 0.51Mpa with a mean value of 0.15Mpa. Diametral results were in the range 0.01Mpa to 0.39Mpa with a mean of 0.39Mpa, and irregular tests were in the range 0.02Mpa to 0.03Mpa with a mean of 0.0341Mpa.

The UCS has been estimated from the corrected Point Load $I_s(50)$ test results using a factor of 24 (Tomlinson, 2001). This gave axial results of 0.24Mpa to 12.24Mpa with a mean of 3.55Mpa. Diametral results were in the range 0.24Mpa to 9.36Mpa with a mean of 2.66Mpa, and irregular tests were in the range 0.48Mpa to 0.72Mpa with a mean of 0.60Mpa.

Values of UCS from direct testing and point load correlations are shown on Figure M1. From the limited dataset available, there does appear to be an apparent increase in UCS with depth.

A characteristic value of 3Mpa has been identified for design.

5.2.19.1.3 Mudstone

No UCS testing was carried out the mudstone encountered on the Scheme.

Point Load tests were undertaken on 12No. samples of the mudstone, of which 5No. were axial tests, 5No. were diametral tests and 2No. were irregular tests.

The axial point load tests produced Point Load Index values in the range of 0.02Mpa to 0.32Mpa with a mean value of 0.09Mpa. Diametral results were in the range 0.06Mpa to 0.1Mpa with a mean of 0.07Mpa, and irregular tests were in the range 0.34Mpa to 0.36Mpa with a mean of 0.35Mpa.

The UCS has been estimated from the corrected Point Load $I_s(50)$ test results using a factor of 24 (Tomlinson, 2001). This gave axial results of 0.48Mpa to 7.68Mpa with a mean of 2.26Mpa. Diametral results were in the range 1.44Mpa to 2.4Mpa with a mean of 1.73Mpa, and irregular tests were in the range 8.16Mpa to 8.64Mpa with a mean of 8.40Mpa.

Values point load correlations for UCS are shown on Figure M1. From the limited dataset available, there does appear to be an apparent increase in UCS with depth.

A characteristic value of 2Mpa has been identified for design.

5.2.20 CBR

A limited amount of CBR testing was undertaken, 1No. in-situ test and 16No. laboratory tests, with a distribution plot of the laboratory results presented in Figure N1. Typically the laboratory CBRs were undertaken on material that will ultimately not be the subgrade of the new carriageway.

Due to the limited amount of data the results have been grouped together. However, samples were included from Glacial Till (Granular 1No., Cohesive 3No.), Hummocky Glacial Deposits (1No.), Made Ground Engineered Fill Granular (2No.), Made Ground PFA (1No.). Note that all of the tests plotted were laboratory tests on re-compacted samples, not in-situ tests. The data is split into 2 groups. The natural glacial material typically gives CBR values below 2%, whereas the engineered fill typically gives CBR values above 20%

1No. in-situ test was undertaken in the Hummocky Glacial Deposits at 0.6m comprising of gravelly, silty, fine to coarse sand. The test estimated a CBR of 86%. A second CBR, CBR01, was attempted but the plate load test failed due to the excavator sinking in soft ground.

Typically, CBR values of less than 2.5% denote that ground improvement is required at the site of the proposed new pavement. However new pavement is either going to be constructed on new earthwork or widened earthworks and therefore will be on top of imported material not tested as part of the existing ground investigation. Or the new pavement will be located on top of an existing earthwork and therefore an in-situ CBR is more appropriate than a recompacted laboratory CBR. 1No. in-situ CBR was undertaken at the site which achieved a much higher CBR value than the recompacted laboratory CBR however as it was only 1No. value reliance cannot be placed on it Scheme wide.

5.2.21 Compaction

Limited compaction testing has been undertaken across the site, however it has been possible to draw some conclusions for the reuse of material.

For the Made Ground Engineered Fill- Granular, Made Ground- Pulverised Fuel Ash and the Glacial Till, the optimum moisture content is within the range of natural moisture contents indicating that compaction should be possible without treatment.

For the Glaciofluvial Deposits, the range of natural moisture content indicates the material is likely wet of the optimum moisture content, however there are only a small number of natural moisture content values available so it is a small dataset to draw a conclusion from. Although more data is available, the same conclusion can be drawn from the Glaciofluvial Ice Contact Deposits. For these deposits, as the natural moisture content is generally wet of the optimum moisture content the material may need drying or lime treatment for reuse.

For the Hummocky Glacial Deposits the natural moisture content indicates the material is likely dry of the optimum moisture content, however only 1No. value of natural moisture content and 1No. compaction test is available so it is a small dataset to draw a conclusion from.

5.2.22 Aggressivity with respect to buried concrete

In accordance with Buildings Research Establishment Special Digest 1: 2005 Concrete in aggressive ground, SO₄ and pH data has been reviewed to calculate a characteristic value to assign a Design Sulfate (DS) and Aggressive Chemical Environment for Concrete (ACEC) Class for each unit within the Scheme. The results also include a review of the total potential sulfate content. The review is summarised in Table 5-2. The granular and cohesive components of each

unit have been grouped together, and the glacial deposits have also been grouped except for the Glacial Till.

Table 5-2 Summary of parameters used in aggressivity with respect to buried concrete assessment

Unit	Test	Count	Min	Max	Characteristic Value	DS and ACEC Class
Made Ground	Water soluble sulphate as SO ₄ (mg/l)	3	17.00	70.49	100.00	DS-1
	pH	8	6.16	8.38	6.16	AC-1
Made Ground Northeast Mound	Water soluble sulphate as SO ₄ (mg/l)	8	17.00	88.00	100.00	DS-2
	pH	11	6.69	9.09	7.00	AC-2
Made Ground Northwest	Water soluble sulphate as SO ₄ (mg/l)	3	18.00	68.00	68.00	DS-2
	pH	4	7.49	8.25	7.49	AC-2
Made Ground-Engineered Fill	Water soluble sulphate as SO ₄ (mg/l)	27	10.00	314.00	200.00	DS-1
	pH	39	6.84	9.62	7.00	AC-1
Made Ground-Pulverised Fuel Ash	Water soluble sulphate as SO ₄ (mg/l)	9	20.00	485.43	500.00	DS-2
	pH	9	7.99	10.15	7.99	AC-2Z
Alluvium – Peat/Granular/Cohesive	Water soluble sulphate as SO ₄ (mg/l)	24	10.00	221.00	100.00	DS-3
	pH	35	4.56	8.90	5.00	AC-4Z
Glacial Till	Water soluble sulphate as SO ₄ (mg/l)	86	11.00	895.00	200.00	DS-2
	pH	107	4.22	9.87	6.10	AC-2
Combined Glacial Deposits without Glacial Till	Water soluble sulphate as SO ₄ (mg/l)	14	11	1900	800	DS2
	pH	31	4.12	8.88	4.84	AC-3Z

The maximum value of 895mg/l for water soluble sulphate for Glacial Till along with the second and third largest values of 331 mg/l and 552 mg/l are located sporadically throughout the site and there does not appear to be a pattern with the presence of these larger values. The maximum value of 1900mg/l for water soluble sulphate for the 'Combined Glacial Deposits without Glacial Till' is from the Glaciofluvial Deposits and appears to be anomalous.

5.2.23 Aggressivity with respect to piling

Reference has been made to BS EN 1993-5:2007 Eurocode 3: Design of steel structures – Part 5: Piling (incorporating corrigendum May 2009) and BSI BS EN 1993-5 NA + A1 – UK National Annex to Eurocode 3: Design of steel structures – Part 5: Piling – AMD 1: July 2012.

Loss of pile thickness is determined based upon the soil environment. The majority of the deposits within the Scheme will fall into a category for ‘undisturbed natural soil’, however the presence of Alluvium – Peat, Alluvium – Cohesive and Alluvium – Granular will fall into a category for ‘aggressive natural soils’. The Made Ground at the site varies by location and will likely fall into categories for ‘non-compacted and non-aggressive fills’ and non-compacted and aggressive fills’. It is recommended that location specific assessments are undertaken at detailed design.

5.2.24 Visual or olfactory evidence of soil contamination

Olfactory evidence of soil contamination was recorded at one exploratory hole location during the intrusive works, as summarised in Table 5-3.

Table 5-3 Summary of visual and/or olfactory evidence of soil contamination

Exploratory Hole ID	Top Depth (m)	Base Depth (m)	Material Description	Soil Contamination Noted	PID Readings (depth – ppm)
WS-N01	3.8	4.2	MADE GROUND: Soft, reddish brown mottled grey, very sandy SILT.	Hydrocarbon odour.	Not tested.

It should be noted that the above material was not subjected to chemical analysis as insufficient material was available for environmental sampling. In borehole log WS-N01, no visual or olfactory evidence of contamination and no elevated PID readings (>0.1ppm) were noted above or below the made ground layer where a hydrocarbon odour was recorded. The above data gap/uncertainty has been incorporated into Tables 6-11 and 7-4.

No visual evidence of asbestos or free phase product was observed during the ground investigation.

5.3 Groundwater

5.3.1 Groundwater observation during the fieldworks

Groundwater strikes were recorded during the ground investigation works in 49No. boreholes. These were mostly recorded within granular portions of Glacial Till, the Glaciofluvial Deposits, Glaciofluvial Ice Contact Deposits and Alluvium. Groundwater strikes were observed between 0.25 and 39.20mBGL after allowing the groundwater to equilibrate for 20 minutes.

5.3.2 Groundwater monitoring observation

Resting groundwater levels recorded during the monitoring programme are based on the data provided in the ground investigation factual reports. The findings reflect the groundwater table is at an elevation of 76.68 to 103.31mAOD. The data indicates there is no defined groundwater table across the site, and this large range is likely due to isolated and perched groundwater systems within the granular glacial deposits at the surface and at depth, within the cohesive Glacial Till.

It should be noted that groundwater levels might fluctuate for several reasons, including seasonal variations. On-going monitoring would be required to establish both the full range of conditions and any trends in groundwater levels.

During the groundwater sampling rounds, in-situ water quality readings were recorded, the results of which are summarised in Table 5-4.

Table 5-4: In-situ groundwater quality data

Water quality parameters	Minimum reading	Maximum reading
Electrical conductivity ($\mu\text{S}/\text{cm}$)	141.72	2420
Dissolved oxygen (mg/l)	0.18	9.86
Redox potential (mV)	-377	234.1
Sample temperature (degree C)	6	12.3
pH	3.36	9.26

The in-situ water quality readings suggest variable groundwater quality conditions exist beneath the Scheme boundary.

5.3.3 Visual or olfactory evidence of groundwater contamination

A review of groundwater monitoring and sampling records has been undertaken for visual and olfactory evidence of groundwater contamination. The findings of this review are summarised in Table 5-5.

Table 5-5 Summary of visual and/or olfactory evidence of groundwater contamination.

Exploratory hole location	Date	Observation
WS-N02B	14/01/2022	Orange/ ochre discolored surface water adjacent to well headworks.
WS-N02B	28/02/2022	Ochre discolored surface water (adjacent to well headworks) and groundwater.
WS-N02B	14/04/2022	Ochre discolored surface water (adjacent to well headworks) and groundwater.
BH-N07	02/02/2022	Red precipitate and oil sheen layer on interface probe.
WS-N02B	02/02/2022	Visible oil sheen and red discoloration on groundwater surface.
BH-N10	03/02/2022	Thin oil sheen layer on groundwater surface.

The 'oily sheen' and red discoloration of groundwater recorded at BH-N07, BH-N10, and WS-N02B is considered to represent 'organic sheens', produced from the anaerobic degradation of organic matter in adjacent vegetation and organic soils (e.g., peat). The organic sheens were noted to break into irregular shaped platelets and did not reform. Oil sheens tend to swirl and elongate before reforming together.

The orange/red/ochre discoloured surface water and/or groundwater recorded at WS-N02B, BH-N07, and WS-N02B represents the breakdown of iron into iron oxides. Potential sources of iron in the wider area include landfills, agricultural land, roadworks, or coal mining.

5.4 Ground gas monitoring

The results of the ground gas monitoring and testing carried out are detailed in Annex I and are discussed in subsection 6.4.

5.5 Summary of design parameters

Table 5-6 presents the design parameters based on a site wide consideration of the data. These values will be suitable for use in general assessment. For critical locations, parameters may be determined on a site-specific basis.

Table 5-6 Summary of design parameters

Geological unit	Density		Shear Strength	Effective Strength		Elastic Properties					Deformation and Consolidation	
	Bulk Density (Mg/m ³)	Weight Density (kN/m ³)	Undrained Shear Strength (kN/m ²)	Effective Strength ϕ' (°)	Effective Strength c' (kN/m ²)	Poisson's Ratio	Angle of dilatancy (Ψ)	Youngs Modulus (Mpa)	Eu (Mpa)	E' (Mpa)	m_v (m ² /MN)	c_v (m ² /year)
Cohesive												
Made Ground-Cohesive*	2.04	20.00	0m = 35kN/m ² + 3.5kN/m ² per m	27	0	0.35	0	3.33	20.00	12.00	0.30	-
Made Ground-Northeast Mound Cohesive*	2.04	20.00	0m = 40kN/m ² + 3.5kN/m ² per m	27	0	0.35	0	3.33	20.00	12.00	0.30	-
Made Ground-Northwest Cohesive*	2.04	20.00	25	27	0	0.35	0	3.33	12.50	7.50	0.30	-
Made Ground-Engineered Fill Cohesive	2.04	20.00	50	27	0	0.35	0	3.33	25.00	15.00	0.20	-
Alluvium – Peat	1.12	11.00	5	20	0	0.40	0	0.67	3.00	2.00	1.50	-
Alluvium - Cohesive	1.94	19.00	35	24	0	0.40	0	3.33	18.00	11.00	0.60	-
Glaciolacustrine Deposits	1.94	19.00	50	26	0	0.40	0	3.33	25.00	15.00	0.30	-
Glaciofluvial Ice Contact	2.04	20.00	50	27	0	0.35	0	5	37.50	22.50	0.20	-

Geological unit	Density		Shear Strength	Effective Strength		Elastic Properties					Deformation and Consolidation	
	Bulk Density (Mg/m ³)	Weight Density (kN/m ³)	Undrained Shear Strength (kN/m ²)	Effective Strength ϕ' (°)	Effective Strength c' (kN/m ²)	Poisson's Ratio	Angle of dilatancy (Ψ)	Youngs Modulus (Mpa)	Eu (Mpa)	E' (Mpa)	m_v (m ² /MN)	c_v (m ² /year)
Deposits-Cohesive												
Glacial Till-Cohesive	2.09	20.50	0mbgl = 50kN/m ² + 2.5kN/m ² per m	27	0	0.40	0	5.00	25.00	15.00	0.20	-
Granular												
Made Ground-Granular*	2.19	21.50	-	34	0	0.30	0	-	-	10.00	-	-
Made Ground-Northeast Mound Granular*	2.04	20.00	-	34	0	0.30	6	-	-	15.00	-	-
Made Ground-Northwest Granular*	1.89	18.50	-	34	0	0.30	3	-	-	9.00	-	-
Made Ground-Engineered Fill Granular	2.19	21.50	-	34	0	0.30	3	-	-	15.00	-	-
Made Ground-Pulverised Fuel Ash	1.47	15.00	-	30	0	0.40	6	-	-	29.00	-	-
Alluvium – Granular	1.94	19.00	-	34	0	0.30	3	-	-	11.00	-	-

Geological unit	Density		Shear Strength	Effective Strength		Elastic Properties					Deformation and Consolidation	
	Bulk Density (Mg/m ³)	Weight Density (kN/m ³)	Undrained Shear Strength (kN/m ²)	Effective Strength ϕ' (°)	Effective Strength c' (kN/m ²)	Poisson's Ratio	Angle of dilatancy (Ψ)	Youngs Modulus (Mpa)	Eu (Mpa)	E' (Mpa)	m_v (m ² /MN)	c_v (m ² /year)
Hummocky Glacial Deposits	2.04	20.00	-	33	0	0.30	3	-	-	12.00	-	-
Glaciofluvial Deposits	2.04	20.00	-	34	0	0.30	3	-	-	12.00	-	-
Glaciofluvial Ice Contact Deposits- Granular	2.04	20.00	-	34	0	0.30	3	-	-	12.00	-	-
Glacial Till- Granular	2.04	20.00	-	35	0	0.30	6	-	-	18.00	-	-

*Made Ground units where site specific parameters can be derived as appropriate.

6. Geo-environmental Assessment

6.1 Introduction

The following risk assessments are primarily based upon the UK DEFRA and EA 'best practice' in regard to the assessment of potentially contaminated land, which reflects the approach promoted in LCRM (referred to as 'Tier 2: Generic Quantitative Risk Assessment (GQRA)' (Environment Agency, 8 October 2020, updated 19 April 2021) and R&D Publication 66 (National House Building Council and Environment Agency, 2008) and the supporting guidance referenced within them.

Where one or more potential pollutant linkage (PPL) has been identified for the Scheme at initial conceptual site model (iCSM) stage, it is necessary to clarify the risks posed by that PPL to human health and controlled water receptors by comparing soil, soil leachate and groundwater contaminant concentrations with guideline values that represent acceptable values to the land end use.

6.2 Human health risk assessment

6.2.1 Hierarchy of Published Sources

Generic Assessment Criteria (GAC) utilised in the risk assessment have been selected from a hierarchy of published sources for Tier 2 GAC for contamination in soil. These include DEFRA Category 4 Screening Levels (C4SL) (Department for Environment Food & Rural Affairs (DEFRA), September 2014), Land Quality Management (LQM) / Chartered Institute of Environmental Health (CIEH) Suitable for Use Levels (S4UL) (Land Quality Management Limited, 2015), Environmental Industries Commission/ Association of Geotechnical and Geo-environmental Specialists/ CL:AIRE GAC (Contaminated Land: Applications in Real Environments, 2009), and SoBRA Acute Generic Assessment Criteria (SoBRA AGAC) (Society for Brownfield Risk Assessment, 2020).

6.2.2 Soil Type and Organic Matter

The GACs adopted for chronic human health risk assessment have assumed a soil organic matter (SOM) of 1%, given the heterogenous nature of near surface soils. This is considered a conservative approach, given that the SOM from all soil samples ranged from 0.1% to 33.4%, with a mean of 3.9% and a median of 1.9%.

6.2.3 Speciation of Metals

The form of mercury is not specified but assumed to be methyl mercury, as this can be readily formed from inorganic mercury by the action of soil microbes. This is a health protective assumption for receptors at the site.

Soil chemical results are available for both trivalent chromium and hexavalent chromium. Therefore, the assessment of total chromium, using the trivalent chromium GAC, has not been undertaken as it is considered overly conservative.

6.2.4 Assessment of Soil Data

In total, 177 environmental soil samples were recovered from within the Scheme boundary and subjected to chemical analysis, associated with the following geological formations as described in Table 6-1.

Table 6-1 Summary of environmental soil samples per geological formation – soils analysis

Geological Formation	Number of samples
Topsoil	13
Made Ground – Granular	6
Made Ground – Cohesive	6
Made Ground – Engineering Fill Granular	74
Made Ground – Engineering Fill Cohesive	20
Made Ground – Pulverised Fuel Ash	9
Made Ground – Northeast Mound Granular	11
Made Ground – Northeast Mound Cohesive	6
Made Ground – Northwest Granular	1
Made Ground – Northwest Cohesive	2
Alluvium – Granular	3
Alluvium – Cohesive	7
Alluvium - Peat	1
Glacial Ice Contact Deposits	2
Glacial Till – Granular	7
Glacial Till – Cohesive	9

The screening of soil data against GAC is presented in Annex G.

6.2.4.1 Chronic GQRA

The proposed Scheme will primarily comprise highway infrastructure, with the majority of land below hardstanding. There will be areas of soft landscaping and Sustainable Drainage Systems (SuDS), however, it is considered unlikely that these will be openly accessible due to the vicinity to the major highway. Therefore, the soil analytical data were screened against GAC based on a commercial and industrial end use.

Of the 177 soil samples tested, none recorded contaminant concentrations above the GAC. Therefore, based on the available information, the chronic risk to construction and maintenance workers is considered to be very low. Given the absence of soil chemical exceedances, the risk to adjacent site users via the windblown dust is also considered to be very low.

6.2.4.2 Acute GQRA

The soil analytical data were screened against Acute Generic Assessment Criteria (AGAC) developed by SoBRA for seven contaminants. The AGAC apply to short-term exposure for children and adult receptors based on the risk of oral consumption of, inhalation of, or dermal contact with soils.

Soil contaminants identified above the AGAC are summarised in Table 6-2.

Table 6-2 Summary of AGAC contaminant exceedances

Contaminant	Number of samples tested	AGAC	Number of samples above AGAC	Location, depth, and concentration
Arsenic	177	80 mg/kg	7	BH06, 2.0m, 100 mg/kg BH07, 8.0m, 98 mg/kg WS03, 2.2m, 88 mg/kg WS09, 2.0m, 89 mg/kg WS10, 3.5m, 85 mg/kg WS-N11, 1.0m, 287 mg/kg WS-S02, 3.1m, 120 mg/kg

The screening of the soil analytical data relative to AGAC showed seven exceedances of the Arsenic AGAC, derived for oral consumption in children. These soil exceedances were recorded within Made Ground – Pulverised Fuel Ash (BH06 at 2.0m, BH07 at 8.0m, WS03 at 2.2m, WS10 at 3.5m and WS-S02 at 3.1m) and Made Ground – Engineering Fill Granular (WS09 at 2.0m and WS-N11 at 1.0m).

However, short-term exposure to soil contaminants would only occur during construction and maintenance works, and since none of the Arsenic concentrations exceed the AGACs based on adult exposure, the risk to construction and maintenance workers is considered to be negligible.

Short-term exposure of road users and nearby residents have not been considered, since the only viable pathway would be via soil dust, which is unlikely to occur as standard dust suppression measures during construction works will prevent the release of soil dust.

6.2.5 Asbestos Analysis and Assessment

In total, 177 soil samples were subjected to asbestos screen and identification. A summary of where asbestos containing materials (ACMs) and fibres were recorded is provided in Table 6-3.

Table 6-3 Summary of recorded ACMs and fibres encountered

Location	Depth (m)	Geology	Asbestos Type	Asbestos Form	Asbestos Quantification (%w/w)
BH-G10	0.50	Made Ground – Engineered Fill Granular	Chrysotile	Loose fibres	<0.001
WS09	2.00		Amosite	Loose fibres	0.003
WS10	3.50	Made Ground – Pulverised Fuel Ash	Amosite	Loose fibres	0.001
WS04	2.00		Chrysotile	Loose fibres	<0.001

Asbestos in the form of Chrysotile and Amosite loose fibres, with fibre counts ranging from <0.001% to 0.003% w/w, were recorded in four locations. The asbestos fibres were recorded within Made Ground – Engineering Fill Granular and Made Ground – Pulverised Fuel Ash, located beneath the existing M66 (southbound) and M60 (eastbound and westbound) carriageways.

The asbestos fibres pose a potential risk to construction and maintenance workers, through fibre inhalation.

6.2.6 Summary of Human Health GQRA

The human health risk assessment has not identified widespread soil contamination within the Scheme boundary that poses an unacceptable risk to human health. However, loose Chrysotile and Amosite asbestos fibres have been identified within the made ground beneath the M66 and M60 carriageways, which poses a potential risk during construction works to facilitate the Scheme, or future excavations during the operation phase.

6.3 Controlled Waters Risk Assessment

6.3.1 Basis of the Assessment

The Water Quality Standards (WQS) utilised in this risk assessment have been selected from a hierarchy of published sources for Tier 2 GAC for contamination in soil leachate and groundwater. These include the Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015 – AA-EQS Inland, MAC-ESQ Inland, and Freshwater Standards, and PNEC derived for EU REACH registration dossiers – Freshwater.

The iCSM has identified several surface water bodies (see Table 2-1), licensed groundwater abstractions, Secondary and Principal aquifers within the Scheme boundary and immediate surrounding area. Furthermore, groundwater within the superficial deposits may be in hydraulic continuity with some of the surface water bodies. Therefore, for the purposes of the controlled waters risk assessment, the WQS is based on the lowest of the freshwater Environmental Quality Standards (EQS) and the UK Drinking Water Standards (DWS). Where no EQS or UK DWS are available (or unachievable due to laboratory test methods) for a given contaminant, the World Health Organisation (WHO) DWS or the laboratory limit of detection (LoD) has been adopted. Consequently, the controlled waters risk assessment is appropriately protective of both surface water and groundwater receptors.

6.3.2 Soil Leachability Data Summary

In total, 63 environmental soil samples were recovered from within the Scheme boundary and subjected to leachability analysis, associated with the following geological formations as described in Table 6-4.

Table 6-4 Summary of environmental soil samples per geological formation – leachability analysis

Geological Formation	Number of samples
Topsoil	5
Made Ground – Granular	4
Made Ground – Cohesive	6
Made Ground – Engineering Fill Granular	22
Made Ground – Engineering Fill Cohesive	7
Made Ground – Pulverised Fuel Ash	5
Made Ground – Northeast Mound Granular	6
Made Ground – Northeast Mound Cohesive	1
Made Ground – Northwest Granular	0
Made Ground – Northwest Cohesive	2
Alluvium – Granular	2

Alluvium – Cohesive	1
Alluvium - Peat	1
Glacial Ice Contact Deposits	1
Glacial Till – Granular	0
Glacial Till – Cohesive	0

The screening of soil leachability data against WQS is presented in Annex H.

6.3.2.1 Soil Leachate GQRA

Soil leachate contaminant concentrations recorded above the WQS are summarised in Table 6-5.

Table 6-5 Summary of soil leachate WQS exceedances

Contaminant	Unit	Number of samples tested	Number of samples below LoD	Concentrations				
				Min	Max	WQS	Number of WQS exceedances	Location of maximum concentration (depth)
pH	pH units	63	N/A	5.56	11.81	6.5 – 9.5 (EQS)	9	(Min) WS-N10 (2.5m) (Max) BH-S06 (0.5m)
Cyanide, total	µg/l	63	60	<LoD	2.5	1 (EQS)	3	BH05 (4.0m)
Thiocyanate	µg/l	63	50	<LoD	1900	4 (DWS)	13	BH-N170B (0.2m)
Ammoniacal Nitrogen	mg/l	63	33	<LoD	3.92	0.3 (EQS)	9	BH-P03 (1.0m)
Chloride	mg/l	63	1	<LoD	270	250 (EQS)	1	WS-N02A (1.0m)
Nitrite	mg/l	63	47	<LoD	2.3	0.01 (EQS)	8	BH-S06 (0.5m)
Sodium	mg/l	63	2	<LoD	251	200 (DWS)	1	WS-N02A (1.0m)
Aluminium	µg/l	43	0	24	88000	15 (EQS)	43	WS-N12C (0.5m)
Antimony	µg/l	63	35	<LoD	32	5 (DWS)	6	BH06 (4.0m)
Arsenic	µg/l	63	21	<LoD	160	10 (DWS)	7	BH05 (4.0m)
Boron	µg/l	63	29	<LoD	2400	1000 (DWS)	2	WS10 (4.5m)
Cadmium	µg/l	63	60	<LoD	2	0.08 (EQS)	3	WS-N02A (1.0m) WS-N07 (0.2m)
Chromium, Hexavalent (Cr6+)	µg/l	61	56	<LoD	160	3.4 (EQS)	5	BH-S06 (0.5m)
Chromium, Trivalent (Cr3)	µg/l	61	58	<LoD	5.8	4.7 (EQS)	3	HDP09 (1.35m)
Chromium (total)	µg/l	63	24	<LoD	170	8.1 (EQS)	7	BH-S06 (0.5m)

Contaminant	Unit	Number of samples tested	Number of samples below LoD	Concentrations				
				Min	Max	WQS	Number of WQS exceedances	Location of maximum concentration (depth)
Copper	µg/l	63	2	<LoD	211	1 (EQS)	61	WS-N02A (1.0m)
Iron	µg/l	63	1	<LoD	7980	200 (DWS)	41	WS-N04A (0.1m)
Lead	µg/l	63	20	<LoD	308	1.2 (EQS)	41	WS-N02A (1.0m)
Manganese	µg/l	63	1	<LoD	2970	50 (DWS)	34	WS-N02A (1.0m)
Nickel	µg/l	63	17	<LoD	21	4 (EQS)	15	WS-N04A (0.1m)
Selenium	µg/l	63	48	<LoD	28	10 (DWS)	5	BH07 (3.0m)
Vanadium	µg/l	63	18	<LoD	87	20 (EQS)	7	BH06 (4.0m)
Zinc	µg/l	63	0	0.5	816	10.9 (EQS)	24	WS-N02A (1.0m)
TPH Aromatic >C21-C35	µg/l	63	60	<LoD	131	90 (DWS)	1	WS-P12B (0.7m)
Fluoranthene	µg/l	63	46	<LoD	0.29	0.01 (LoD)	17	BH-N19 (0.25m)
Benzo[a]pyrene	µg/l	63	60	<LoD	0.39	0.01 (LoD)	3	BH-N19 (0.25m)
Benzo[b]fluoranthene	µg/l	63	59	<LoD	0.4	0.01 (LoD)	4	BH-N19 (0.25m)
Benzo[g,h,i]perylene	µg/l	63	60	<LoD	0.46	0.01 (LoD)	3	BH-N19 (0.25m)
Benzo[k]fluoranthene	µg/l	63	61	<LoD	0.16	0.01 (LoD)	2	BH-N19 (0.25m)
Indeno(1,2,3-c,d)Pyrene	µg/l	63	60	<LoD	0.41	0.01 (LoD)	3	BH-N19 (0.25m)
Phenol	µg/l	63	60	<LoD	20	7.7 (EQS)	3	BH-G04 (0.5m) WS-N12 (0.1m) WS-N12C (0.5m)

Contaminant	Unit	Number of samples tested	Number of samples below LoD	Concentrations				
				Min	Max	WQS	Number of WQS exceedances	Location of maximum concentration (depth)
Notes WQS = Water Quality Standards. DWS = UK Drinking Water Standards. EQS = Environmental Quality Standards for Freshwaters. LoD = Limit of Detection.								

Table 6-5 suggests that there is relatively widespread heavy metal soil leachate exceedances within the Scheme boundary, with more localised inorganic and organic soil leachate exceedances (including TPH, PAHs and phenol). The widespread heavy metal soil leachate exceedances were identified in both the made ground and natural ground, whilst the more localised inorganic and organic soil leachate exceedances were generally recorded in the made ground.

The most soil leachate exceedances were recorded in samples from “Made Ground – Engineering Fill Granular” (125 exceedances), with the least exceedances being recorded in samples from “Made Ground – Mound Cohesive (2 exceedances). However, there appears to be positive correlation between the number of samples analysed and the number of exceedances per geological formation.

In general, there appears to be no discernible pattern between soil leachate concentrations and the geological formations. The exceptions to this were speciated PAH compounds which generally recorded exceedances in Made Ground – Engineering Fill (Cohesive and Granular) soil samples. These soil samples generally exhibited visible evidence of pyrogenic materials (e.g., clinker, tarmacadam, etc) or were below formations containing pyrogenic materials. Furthermore, exceedances of arsenic, antimony, boron, chromium, selenium and vanadium were recorded in PFA. These elevated metal concentrations were not recorded within other geological formations.

6.3.2.2 Evaluation of Soil Leachate Exceedances

The soil leachate exceedances detailed in Table 6-5 suggest contaminants maybe leaching into groundwaters from the made ground and impacting groundwater quality. However, the following should be considered in respect to the conceptual site model:

- Most concentrations of the localised organic and inorganic soil leachate exceedances are in the same order of magnitude as the WQS or the LoD. This suggests that these exceedances are representative of background conditions or diffused contamination and are unlikely to pose a significant risk to groundwater receptors.
- Some of the metal contaminant exceedances are associated with natural ground and are therefore considered to represent natural background soil leachate concentrations.
- Some of the chemical exceedances in Table 6-5 are from soils located beneath hardstanding. It is considered that the hardstanding will minimise infiltration and consequently reduce leaching of contaminants into the saturated zone below the site.
- The contaminant exceedances are associated with soil leachate which has not been proved to have entered the groundwater table yet, and therefore, the risk to controlled waters is still theoretical.
- Soil leachate analysis tends to overestimate the likely concentrations of contaminants in eluate, such that the assessment of leachate results represents a conservative risk assessment approach.
- The localised PAH soil leachate exceedances in predominantly “Made Ground – Engineering Fill” (cohesive and granular) soil samples are considered to have very low aqueous solubility values and are unlikely to leach into groundwaters.
- The single TPH aromatic >C21-C35 soil leachate exceedance in WS-P12B was recorded in peat deposits and is considered to be representative of natural hydrocarbons.
- The adopted WQS are considered to be conservative as they do not take into account local background concentrations in the groundwaters, bioavailability in surface water bodies, and natural attenuation processes in the unsaturated zone.

The risk to controlled waters is discussed further in subsection 6.3.3.

6.3.3 Groundwater Data Summary

In total, 31 environmental groundwater samples were recovered from within the Scheme boundary during post-fieldwork monitoring and subjected to chemical analysis, as described in Table 6-6.

Table 6-6 Summary of environmental groundwater samples per geological formations – groundwater analysis

Screened Stratum	Number of samples
Topsoil	0
Made Ground – Granular	0
Made Ground – Cohesive	1
Made Ground – Engineering Fill Granular	3
Made Ground – Engineering Fill Cohesive	2
Made Ground – Pulverised Fuel Ash	0
Made Ground – Northeast Mound Granular	0
Made Ground – Northeast Mound Cohesive	0
Made Ground – Northwest Granular	0
Made Ground – Northwest Cohesive	0
Alluvium – Granular	0
Alluvium – Cohesive	2
Glaciolacustrine	2
Glacial Ice Contact Deposits	4
Glaciofluvial Deposits – Granular	1
Glacial Till – Granular	1
Glacial Till – Cohesive	15

The screening of groundwater analytical data against WQS is presented in Annex H.

6.3.3.1 Groundwater GQRA

Groundwater contaminant concentrations recorded above the WQS are summarised in Table 6-7.

Table 6-7 Summary of groundwater WQS exceedances

Contaminant	Unit	Number of samples tested	Number of samples below LoD	Concentrations				
				Min	Max	WQS	Number of WQS exceedances	Location of maximum concentration
pH	pH UNIT S	31	N/A	5.98	8.49	6.5 – 9.5 (EQS)	6	(Min) WS-N06
Ammoniacal Nitrogen as N	mg/l	31	2	<LoD	5.57	0.3 (EQS)	16	WS-P12B
Thiocyanate	µg/l	31	24	<LoD	1700	4 (DWS)	7	BH-N04
Chloride	mg/l	31	0	4	534	250 (EQS)	2	BH-N04
Sodium	mg/l	31	0	4	312	200 (DWS)	2	BH-N04
Aluminium	µg/l	31	14	<LoD	640	15 (EQS)	14	BH-P03
Arsenic	µg/l	31	9	<LoD	17	10 (DWS)	3	WS-P04
Cadmium	µg/l	31	27	<LoD	0.4	0.08 (EQS)	2	BH-N08B
Chromium, trivalent (Cr3)	µg/l	31	26	<LoD	30	4.7 (EQS)	5	WS-N07
Copper	µg/l	31	11	<LoD	18	1 (EQS)	15	BH-P03
Iron	µg/l	31	1	<LoD	37800	200 (DWS)	23	BH-N08B
Manganese	µg/l	31	0	7	9850	50 (DWS)	26	WS-N02B
Nickel	µg/l	31	1	<LoD	25	4 (EQS)	19	BH-N18
Zinc	µg/l	31	0	3	69	10.9 (EQS)	9	BH-N18
Phenol	µg/l	31	30	<LoD	40	7.7 (EQS)	1	BH-P03
Notes: WQS = Water Quality Standards. DWS = UK Drinking Water Standards. EQS = Environmental Quality Standards for Freshwaters. LoD = Limit of Detection.								

Table 6-7 indicates relatively widespread exceedances of the WQS in groundwater for ammoniacal nitrogen, aluminium, copper, iron, manganese, and nickel, with localised exceedances for thiocyanate, chloride, sodium, arsenic, cadmium, chromium (III), zinc and phenol.

The most groundwater exceedances were recorded in samples from “Glacial Till – Cohesive” (80 exceedances), with the least exceedances being recorded in samples from “Glaciofluvial Deposits” (2 exceedances). However, there appears to be a positive correlation between the number of samples analysed and the number of exceedances per geological formation.

There appears to be no discernible pattern between groundwater concentrations and the geological formations. However, a single phenol groundwater exceedance was recorded in BH-P03 on 02/02/2022, which is located within the made ground of Landfill Site 2.

Furthermore, thiocyanate groundwater exceedances were recorded in BH-G08B, BH-N02A, BH-N03, BH-N04 and WS-N02B, on 01/02/2022, which are located within both made ground and superficial deposits beneath the M60 and M66 carriageways.

6.3.3.2 Evaluation of Groundwater Exceedances

The contaminant exceedances in Table 6-7 suggest that groundwaters within the made ground and superficial deposits beneath the Scheme boundary have been impacted, posing a potential risk to the wider aquifers, licensed groundwater abstractions and surface water bodies. However, the following should be considered in respect to the conceptual site model:

- The concentrations of most groundwater contaminant exceedances were either the same or one order of magnitude greater than the WQS. This suggests most groundwater exceedances are representative of background conditions and are unlikely to pose a significant risk to controlled water receptors.
- The highest concentrations of the more widespread groundwater contaminants (e.g., ammoniacal nitrogen, aluminium, copper, iron, manganese, and nickel) were generally located in agricultural fields or beneath the highways. This suggests these contaminants are representative of diffused groundwater contamination associated with agricultural and highway activities in the wider area.
- Fewer WQS contaminant exceedances were recorded in the groundwater results compared to the soil leachate results, confirming that the leachate testing procedure represents a conservative estimate of the contaminant leaching process. This also suggests leaching contaminants are being subject to natural attenuation processes within the unsaturated zone, prior to entering groundwaters.
- Thiocyanate groundwater concentrations in BH-N04 (1,700 ug/l) and WS-N02B (1,200 ug/l) were three orders of magnitude greater than the WQS (4 ug/l), suggesting a point source of contamination, rather than a diffused source. However, no obvious point source of contamination is present in the vicinity.
- A single phenol groundwater exceedance (40 ug/l) was recorded within the made ground of BH-P03, suggesting Landfill Site 2 is the potential point source of contamination. However, no detectable phenol leachate concentrations were recorded in soil samples collected in the made ground within BH-P03, raising doubts regarding the source of the phenol groundwater exceedance in BH-P03.
- The Scheme is underlain by made ground or topsoil over heterogeneous superficial Secondary aquifers, with bedrock Secondary aquifers (e.g., Manchester Marl and Pennine Coal Measures) and Principal aquifer (e.g., Chester Formation) at depth. The depth to these

bedrock aquifers, considered to be the most sensitive receptors, is at least 25m below ground level. The groundwater contaminant exceedances to date have been recorded within samples collected from monitoring well response zones that screen shallow superficial deposits (only), and it is considered groundwater transport processes will reduce the concentrations of dissolved phase contaminants prior to entry into the bedrock aquifers. Furthermore, the heterogenous nature of the superficial deposits (cohesive and granular) beneath the Scheme is likely to restrict vertical migration of dissolved contaminants towards the deeper bedrock aquifers. However, it should be stressed that no groundwater monitoring wells have been installed within the deeper bedrock aquifers to date and therefore the groundwater quality in the bedrock aquifers are unknown.

- It is anticipated, but not confirmed, that nearby licensed groundwater abstraction wells abstract groundwater from the deeper bedrock aquifers. These licensed groundwater wells are therefore unlikely to be impacted by groundwater contamination based on the argument in the above point.
- The heterogenous nature of the superficial deposits beneath the Scheme is likely to restrict the lateral migration of groundwater contamination towards surface water bodies in the wider area.
- The adopted EQS values for copper, lead, manganese, nickel, and zinc assume 100% bioavailability in respect to aqueous species within surface water bodies. The adopted EQS values for these contaminants are therefore considered to be very conservative and unrepresentative, as the Predicted-No-Effect Concentrations (PNEC), that would be generated from surface water samples, are anticipated to be lower and more representative.
- The monitoring wells within the Scheme boundary have only been subjected to one round of groundwater sampling and analysis. Surface water bodies within the Scheme boundary and immediate surrounding area have not been subjected to water sampling and analysis. Some of the groundwater exceedances could be a consequence of human error or normal variation, and multiple sampling rounds are required to ensure the data is reliable. Therefore, the water sampling and analysis data recorded to date are not considered fully sufficient, reliable, and representative of the water environment within the Scheme boundary.

6.3.4 Summary of Controlled Waters GQRA

Based on the discussions in subsections 6.3.2.2 and 6.3.3.2, the potential impact on controlled waters from most contaminant exceedances in Table 6-7 is not considered significant and does not warrant any remediation to facilitate the proposed Scheme.

6.4 Ground Gas Risk Assessment

6.4.1 Methodology

To assess the potential risks to construction and maintenance workers during below ground works within excavations and confined spaces, the ground gas monitoring results have been screened against available Workplace Exposure Limits (WELs) for long-term and short-term exposure, in accordance with Health and Safety Executive 's 'EH40/2005 Workplace Exposure Limits (Health and Safety Executive, 2020).

As discussed in subsection 2.9.2, a PPL associated with the lateral migration of ground gas to adjacent properties has not been considered. This has been confirmed by the intrusive ground investigations, which have not recorded any visible degradable organic material or total organic carbon contents above 5% in the made ground soils (including Landfill Site 2). Therefore, the risk to adjacent properties has not been assessed in this section.

6.4.2 Ground Gas Monitoring

A total of eight monitoring rounds were scheduled by the ground investigation contractors. However, the monitoring results show that wells were visited up to five times, between 12th January 2022 and 4th May 2023. It should be noted that not all monitoring wells were subjected to five monitoring rounds due to some wells being inaccessible, flooded, or damaged.

Atmospheric pressures during the monitoring programme ranged from 968mb to 1028, falling on five dates (02/02/2022, 03/02/2022, 06/04/2022, 03/05/2023 and 04/05/2023).

The ground gas monitoring results are presented in full in Annex I.

6.4.3 Data Evaluation

An evaluation of the ground gas monitoring data was undertaken to identify and eliminate any anomalous data from the ground gas risk assessment. A summary of data removed from the assessment, along with an explanation, is provided in Table 6-8.

Table 6-8 Ground gas data evaluation.

Data removed (comments)	Explanation for removal
50mm diameter monitoring wells at BH-G06, BH-G08B, BH-N02A, BH-N04, BH-N04A, BH-N07, BH-N08B, BH-N10, BH-N11, BH-N14, BH-N16, BH-N19, BH-N20, BH-N21, BH-NO03A, BH-P03, BH-S05, WS02, WS-N04, WS-N06, WS-N07, WS-N09, WS-N12C, WS-N13, WS-P01, WS-P03A, WS-P04, WS-P05, WS-P06, WS-P12B, WS-S04 and WS-S05 (Only on selected dates where the well response zone was flooded 50% or more).	The monitoring wells' response zones were fully or partially flooded during certain monitoring rounds. Consequently, a piston effect may have occurred in the respective monitoring wells, leading to anomalous ground gas data which is not representative of in-situ conditions.
19mm diameter monitoring wells at BH-N02A, BH-N04, BH-N04A, BH-N07, BH-N10, BH-N11, BH-N20, BH-N21, WS-G08A, WS-N04A, WS-N16 and WS-P02A.	The 19mm diameter monitoring wells were designed and installed for groundwater level monitoring only, and not ground gas monitoring. It is best practice to employ 50mm diameter wells for ground gas monitoring and a degree of caution is required when using ground gas data from alternate well diameters. Consequently, the gas results from 19mm diameter wells cannot be compared to those from 50mm diameter wells.
Notes: Some of the above locations are dual installations, containing both 19mm and 50mm diameter monitoring wells.	

Negative flow rates recorded during the ground gas monitoring programme have not been discounted as they correspond with negative differential pressures recorded and recent rises in atmospheric pressures in the days prior to the monitoring rounds.

An attempt was made to install a ground gas monitoring well (BH-P03) within the made ground of Landfill Site 2. However, as shown in Table 6-8, BH-P03 was either partially or fully flooded during the ground gas monitoring programme. Therefore, the associated ground gas data from BH-P03 was considered to be unrepresentative of the surrounding ground conditions and could not be used as part of the ground gas risk assessment. Nevertheless, a review of the field records for BH-P02, BH-P03 and WS-P09 identifies no visual evidence of degradable organic materials within the made

ground of Landfill Site 2. In addition, corresponding estimated and actual total organic carbon contents within the made ground of Landfill Site 2 are below 5%. Consequently, visual and laboratory data suggest that Landfill Site 2 has a very low gas generation potential, which corresponds to the discussion in subsection 2.9.

The ground gas monitoring results are summarised in Table 6-9.

Table 6-9 Summary of ground gas monitoring results

Location	Response zone	Steady state flow rate range (l/hr)	Ground Gas Concentrations (Peak and Steady State)						
			Methane	Methane _{LEL}	Carbon dioxide	Oxygen	Carbon Monoxide	Hydrogen Sulphide	VOC Headspace
			%				ppm		
Motorway Construction									
BH-N03	MGEF	-0.1 – 0.2	<0.1 – 0.5	<1 – 10	0.2 – 3.9	15.3 – 20.8	<1 – 2	<1 – 1	<1
BH-N15	MGEF	-0.1 – 0.2	<0.1	<1	0.1 – 3.4	17.4 – 21	<1 – 2	<1 – 1	<1
Northeast Mound									
BH-N14	GI	-0.6 – 0.1	<0.1 – 0.5	<1 – 10	0.1 – 33.8	0.3 – 21.7	<1 – 2	<1	<1
BH-N17	MGEF	-8.9 – 5.7	<0.1 – 15.9	<1 – 345	0.1 – 18.8	<0.1 – 21.1	<1	<1	<1
BH-N18	MGEF	0.1	34.7	694	7.6	10.2	1	<1	<1
Landfill Site 2									
BH-P02	HGD	-4.5 – 2.5	<0.1	<1	0.1 – 5.9	11.6 – 21.4	<1 – 1	<1 – 1	<1
Surrounding Area									
BH-G06	HGD	-0.1 – 0.1	<0.1	<1	1.3 – 2.6	16.9 – 19.4	<1 – 6	<1	<1
BH-N21	GI	0.2	<0.1	<1	1.9	19.6	3	<1	<1
WS-P03A	GT	0.1	<0.1	<1	1.8 – 5.6	4.4 – 18.1	<1 – 2	<1 – 1	<1
WS-P09	HGD	-2.8 – 2.4	<0.1 – 0.1	<1 – 2	0.1 – 4.4	14.8 – 20.8	<1 – 7	<1 – 1	<1

Location	Response zone	Steady state flow rate range (l/hr)	Ground Gas Concentrations (Peak and Steady State)						
			Methane	Methane, LEL	Carbon dioxide	Oxygen	Carbon Monoxide	Hydrogen Sulphide	VOC Headspace
			%				ppm		
Notes: LEL: Lower Explosive Limit VOC: Volatile Organic Compound MGEF: Made Ground Engineering Fill HGD: Hummocky Glacial Deposits GI: Glaciofluvial Ice Contact Deposits GT: Glacial Till Deposits									

6.4.3.1 Flow Rates

For this risk assessment, peak/initial flow rates were omitted as they are unlikely to be representative of the rate of gas generation within the ground, as per guidance outlined in BS 8485:2015+A1:2019 (British Standards Institution, 2019).

The positive flow rates recorded during the monitoring programme were less than 70l/hr and are typically representative of ground gas regimes with very low to low hazard potentials (equivalent to Characteristic Situations 1 and 2), as outlined in Table 2 within BS 8485:2015+A1:2019 (British Standards Institution, 2019).

6.4.3.2 Carbon Dioxide

Carbon dioxide was recorded in excess of the WEL for long-term (8 hour) exposure (0.5% vol) and short-term (15 mins) exposure (1.5% vol) at all 10 monitoring locations.

In general, the highest carbon dioxide concentrations (>5%) were recorded in monitoring wells with response zones in made ground and superficial deposits, with no obvious degradable organic material documented on associated exploratory hole records.

The source of elevated carbon dioxide in BH-N03, BH-N15, BH-N17 and BH-N18 is considered to be the made ground associated with the northeast mound or motorway construction. The carbon dioxide gas recorded could have become trapped during the compaction of the motorway material.

The source of elevated carbon dioxide in the superficial deposits could be unknown off-site sources, or natural aerobic degradation of organic material within the monitoring wells.

6.4.3.3 Methane

The minimum concentration of methane necessary to support its combustion in air is defined as the Lower Explosive Limit (LEL) of 5 percent (%) volume per volume (v/v).

The methane LEL was exceeded on seven occasions in four monitoring locations (BH-N03, BH-N14, BH-N17 and BH-N18).

The source of the methane gas concentrations in BH-N03, BH-N17 and BH-N18 is considered to be the made ground engineering fill associated with the motorway construction or northeast mound. The estimated total organic carbon content (based on total organic matter) within the made ground is between 0% and 5.1%. No visible degradable organic material was noted within these made ground soils. The methane gas recorded could have become trapped during the compaction of the motorway material.

No visual degradable organic material was noted within the monitoring well response of BH-N14, which screens the Glaciofluvial Ice Contact Deposits (granular) and is located beneath the northeast mound. A negligible steady state flow rate (0.1l/hr) was recorded when the elevated methane concentration was recorded in BH-N14 on 04/05/2023. The Glaciofluvial Ice Contact Deposits are considered to be a migration pathway for ground gas rather than a source. Consequently, the source of the elevated methane gas recorded in BH-N14 is considered to be an unknown off-site source, or natural anaerobic degradation of organic material within the well.

6.4.3.4 Carbon Monoxide

Carbon monoxide concentrations were not found to exceed the long-term WEL (20 ppm) or short-term WEL (100 ppm) at any of the monitoring locations.

6.4.3.5 Hydrogen Sulphide

Hydrogen sulphide concentrations were not found to exceed the long-term WEL (5 ppm) or short-term WEL (10 ppm) at any of the monitoring locations.

6.4.3.6 Depleted Oxygen

There is no specific exposure limit for depleted oxygen. However, the Mines Regulations (HSE, 2014) note that the amount of oxygen in a body of air should not fall below 19% and this criterion has been adopted as an indicative threshold for depleted oxygen. Depleted oxygen concentrations (below 19% v/v) were recorded on 21 occasions at 9 monitoring locations.

6.4.3.7 Volatile Organic Compounds (VOC)

No detectable VOC concentrations were recorded during headspace testing of the monitoring wells over the course of the monitoring programme.

6.4.4 Summary of Ground Gas Risk Assessment

The presence of locally elevated ground gas concentrations (methane and carbon dioxide) and depleted oxygen within the Scheme boundary pose potential hazards to construction and maintenance workers during the construction and operational phase.

6.5 Updated Conceptual Site Model

Based on the ground investigation data review and GQRA, Table 6-10 presents an updated CSM and associated PPLs.

Table 6-10 Updated CSM and PPLs

Source	Contaminants	Pathway	Receptor	Consequence	Probability	Risk	Comment
Made ground (Engineering Fill and Pulverised Fuel Ash).	Chrysotile and Amosite asbestos loose fibres (<0.001 – 0.003%w/w).	Asbestos fibre inhalation.	Construction and maintenance workers.	Medium	Likely	Moderate	Exposure to impacted soils during excavation works.
			Adjacent residents/land users.	Medium	Low Likelihood	Moderate/Low	Exposure to wind-blown asbestos fibres during construction and maintenance works.
Made ground associated with highway construction.	Ground gases (methane, carbon dioxide and depleted oxygen).	Ground gas ingress and inhalation.	Construction and maintenance workers.	Severe	Low Likelihood	Moderate	Exposure to ground gas in excavations and confined spaces during construction and maintenance works.
Made ground associated with highway construction and superficial deposits.	Leachable metals, inorganics PAHs and, phenol.	Vertical migration of dissolved phase leachable contaminants.	Groundwater in Secondary aquifers.	Medium	Low Likelihood	Moderate/Low	Leaching of soil contaminants during and post-construction, and vertical migration to Secondary aquifers.
			Groundwater in Principal aquifer (Chester Formation) and Secondary A aquifer (Pennine Coal Measures).	Medium	Unlikely	Low	Vertical migration of leachable contaminants to groundwater in Chester Formation and Pennine Coal Measures is unlikely due to depth to bedrock (>25m) and thickness of overlying superficial deposits.
		Surface runoff of dissolved phase leachable contaminants.	Surface water bodies: <ul style="list-style-type: none"> • Ponds – immediately NE • Ditches – immediately NE • Parr Brook – M60 embankment (onsite) • Castle Brook – 60m NE • Hollins Brook – 250m N 	Medium	Low Likelihood	Moderate/Low	Leaching of soil contaminants during and post-construction, and surface runoff to surface waters.
Groundwater within made ground and superficial deposits	Elevated metals, inorganics and phenol.	Lateral migration of dissolved phase contaminants in groundwater.	Licensed groundwater abstractions: <ul style="list-style-type: none"> • Pike Fold Golf Course (spray irrigation and general use, aquifer unknown) – 58-87m NW • Whitefield Golf Club spray irrigation and general use, aquifer unknown) – 766m NW 	Medium	Low Likelihood	Moderate/Low	Lateral and/or vertical migration of contaminated groundwater in the made ground and superficial deposits to offsite licensed groundwater abstractions, assuming the worst-case scenario that the associated wells abstract water from the superficial deposits and not the deeper bedrock aquifers.
			Groundwater in Principal aquifer (Chester Formation) and Secondary A aquifer (Pennine Coal Measures).	Medium	Unlikely	Low	Vertical migration of contaminated groundwater in made ground and superficial deposits, to groundwater in Chester Formation and Pennine Coal Measures is unlikely due to depth to bedrock (>25m) and thickness of overlying heterogeneous superficial deposits.

6.6 Uncertainties and Implications in Refined CSM and GQRA

In accordance with good practice, data gaps and uncertainties in the updated CSM and GQRA have been identified at this stage. These are summarised in Table 6-11, along with the likely implications and mitigation measures.

Table 6-11 CSM / GQRA data gaps and uncertainties

Data gap/ uncertainty	Implications	Mitigation measures
The depth to the Chester Formation (Principal aquifer).	The greater the depth to the Chester Formation, the less likely it is that leachable soil contaminants and/or contaminated groundwater within the made ground and superficial deposits will migrate downward and enter the Principal Aquifer. The ground investigation data to date indicates that there is at least 25m of superficial deposits above the Principal Aquifer, which is likely to prevent or significantly reduce vertical migration of dissolved phase leachable contaminants and contaminated groundwater.	No further investigation is necessary.
Groundwater quality of the Chester Formation (Principal aquifer) and Pennine Coal Measures (Secondary A aquifer).	It is unknown whether the bedrock aquifers have been impacted by discrete or diffused groundwater contamination. However, given the depth to bedrock beneath the Scheme (>25m), groundwater contamination from on-site sources is considered unlikely.	No further investigation is necessary.
The source of thiocyanate groundwater concentrations in BH-N04 and WS-N02B.	The source of thiocyanate groundwater concentrations in BH-N04 and WS-N02B is not fully understood. It is uncertain whether the results are due to point sources of contamination or sampling/laboratory error.	Consideration should be given to undertaking further groundwater sampling to facilitate a more robust assessment of the thiocyanate groundwater concentrations in BH-N04 and WS-N02B.
The made ground layer noted to have a hydrocarbon odour in WS-N01 (3.80-4.20m) was not subjected to chemical analysis.	Suspected hydrocarbon contamination has not been quantified and poses an exposure risk to construction workers during ground works.	The suspected, but not confirmed, soil contamination will be managed through the adoption of a watching brief and a discovery strategy in accordance with the Contaminated Land Management Plan, as detailed in subsection 9.7.

6.7 Preliminary Waste Assessment

For soils/made ground arising from contaminated or potentially contaminated sites, the assessment of wastes destined for landfill is a two-stage process:

- Stage 1: assessing whether materials are classified as hazardous or non-hazardous, following the procedure laid out in the Environment Agency Technical Guidance WM3 (Environment Agency, 2018);
- Stage 2: assessing whether the materials meet the criteria for the acceptance of waste at landfill based on Waste Acceptance Criteria (WAC) for inert or hazardous waste landfills (note that individual landfill operators may also have stricter or additional criteria).

In order to provide an indication of potential disposal options should excavated materials require removal from site, a preliminary assessment of the potential waste classification has been made based on the available soil analytical results. This equates to Stage 1 set out above, and therefore does not represent a full characterisation of the material from site. The preliminary assessment has been undertaken in accordance with Environment Agency Guidance 1 using “HazWasteOnline™”, a web-based assessment tool which conforms with waste regulations and guidance.

The results of the preliminary hazardous waste classification are summarised in Table 6-12 and presented in Annex J.

Table 6-12 Summary of preliminary hazardous waste classification

Sample ID (depth)	Stratum	Waste classification	Hazardous property code(s)	Hazardous component(s)	Waste code(s)
BH05 (1.00m)	Made Ground – Engineering Fill Granular	Hazardous	HP7 – Carcinogenic HP11 – Mutagenic	TPH (C6 to C40) – 1291.9 mg/kg	17 05 03
BH06 (1.00m)	Made Ground – Engineering Fill Granular	Hazardous	HP7 – Carcinogenic HP11 – Mutagenic	TPH (C6 to C40) – 1615 mg/kg	17 05 03
BH07 (1.00m)	Made Ground – Engineering Fill Granular	Hazardous	HP7 – Carcinogenic HP11 – Mutagenic	TPH (C6 to C40) – 3574.5 mg/kg	17 05 03
BH07 (2.00m)	Made Ground – Pulverised Fuel Ash	Hazardous	HP7 – Carcinogenic HP11 – Mutagenic	TPH (C6 to C40) – 1571.7 mg/kg	17 05 03
WS08 (0.30m)	Made Ground – Engineering Fill Granular	Hazardous	HP7 – Carcinogenic HP11 – Mutagenic	TPH (C6 to C40) – 1533.9 mg/kg	17 05 03
WS-N11 (0.50m)	Made Ground – Engineering Fill Granular	Hazardous	HP7 – Carcinogenic HP11 – Mutagenic	TPH (C6 to C40) – 1172 mg/kg	17 05 03

Sample ID (depth)	Stratum	Waste classification	Hazardous property code(s)	Hazardous component(s)	Waste code(s)
All other (173) soil samples	N/A	Non-hazardous	N/A	N/A	17 05 04

With the exception of BH05 (1.0m), BH06 (1.0m), BH07 (1.0m and 2.0m), WS08 (0.3m) and WS-N11 (0.5m), the preliminary hazardous waste assessment indicates that all remaining soil samples are non-hazardous.

BH05 (1.0m), BH06 (1.0m), BH07 (1.0m and 2.0m), WS08 (0.3m) and WS-N11 (0.5m) have been identified as being hazardous, due to the carcinogenic and mutagenic properties associated with TPH concentrations above 1000 mg/kg. The results suggest that the material associated with these soil samples would require disposal at a suitably permitted hazardous waste landfill or treatment facility. However, the following should be taken into consideration when deciding the waste classification of these samples.

- The source of the TPH contamination in BH05 (1.0m), BH06 (1.0m), BH07 (1.0m and 2.0m), and WS08 (0.3m) is likely to be macadam fragments within the soil or the overlying hardstanding. Therefore, consideration should be given to reclassifying the made ground soils at these locations, where found directly beneath tarmacadam hardstanding.
- The soil layer below sample WS-N11 at 0.50m was noted to contain ash and clinker fragments, whilst the layer in question only contained brick and limestone gravel. No elevated field headspace readings and hydrocarbon odours were noted on the borehole record. It is suspected the elevated TPH concentration in WS-N11 at 0.50m is associated with a pyrogenic source (incomplete combustion) rather than a petrogenic source (petroleum hydrocarbons).
- No moisture content analysis was undertaken as part of the soil chemical laboratory testing on sample WS-N11 at 0.50m. The chemical analysis results are expressed on a dry weight basis. It is best practice to carry out hazardous waste assessment on wet weight results as this is representative of site conditions. Should moisture content analysis be performed, the TPH concentration in WS-N11 at 0.50m may reduce, potentially resulting in the reclassification of the soil sample, as non-hazardous.
- No TPH Total with ID analysis was undertaken as part of the soil chemical laboratory testing on the soil samples. Soil samples classified as hazardous contained carcinogenic and mutagenic properties associated with TPH concentrations above 1000 mg/kg. It may be possible to declassify the hazardous waste status in BH05 (1.0m), BH06 (1.0m), BH07 (1.0m and 2.0m), WS08 (0.3m) and WS-N11 (0.5m) to non-hazardous waste, by re-analysing the corresponding soil samples for TPH Total with ID. The TPH Total with ID analysis allows the Benzo(a)pyrene carcinogenic and mutagenic marker tests to be performed, which the TPH CWG analysis does not. Consequently, the TPH CWG analytical option is considered to be a more conservative hazardous waste assessment approach.

6.7.1.1 Asbestos within waste soils

Technical Guidance WM3 requires that, within a mixed waste, the separately identifiable waste should be assessed separately. Where waste soils contain identifiable pieces of asbestos, the asbestos should be, where feasible, separated from the soil and classified separately. The identifiable asbestos materials should be disposed of within a stable non-reactive hazardous waste landfill or a special cell in a non-hazardous waste landfill.

As part of the laboratory analysis, all soil samples were screened for the presence of asbestos. Most of the soil samples were found to contain no asbestos materials or fibres.

However, BH-G10 (0.5m), WS04 (2.0m), WS09 (2.0m), and WS10 (3.5m) were found to contain loose fibres of chrysotile asbestos. Further asbestos quantification analysis of these soil samples found them to contain <0.001% to 0.003% by weight of asbestos fibres. Given that the percentage of asbestos fibres within these soil samples are less than 0.1% by weight, the associated waste soils are considered to be non-hazardous and can be disposed of within a non-hazardous waste landfill, which is permitted to accept asbestos at the non-hazardous concentrations.

7. Refined Geotechnical Risk Register

The Geotechnical Risk Register for the Scheme, together with details of other presently known construction related risks based on the information consulted in producing this GIR are presented in Table 7-4. A semi-quantitative approach has been used based on the procedures outlined in CD622 (Highways England, now National Highways, 2020).

In the case of a semi-quantitative risk assessment, the degree of risk is the expected impact of damage, loss or harm for a given hazard under particular circumstances which is expressed as:

Degree of Risk = Likelihood x Effect

The likelihood and the scale of effect being determined using Table 7-1 and

Table 7-2 respectively, which together then provide the degree of risk based on Table 7-3.

Table 7-1 Scale of likelihood

Likelihood (L)	Scale
Very likely	4
Likely	3
Unlikely	2
Negligible	1

Table 7-2 Scale of effect

Effect (E)	Scale
Very High	4
High	3
Low	2
Very Low	1

Table 7-3 Degree of risk

Degree of risk	Risk level	Recommended response
1 to 4	Trivial	None
5 to 8	Significant	Consider attention
9 to 12	Substantial	Attention required
13 to 16	Intolerable	Work must not start until risk is reduced

The geotechnical risk register is presented in Table 7-4.

Table 7-4 Geotechnical risk register

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Risk assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
Geotechnical risks											
1	Ground and groundwater conditions identified during construction are different from the ground and groundwater model identified in the ground investigation.	Difficult ground conditions are not identified resulting in delays on site during construction leading to additional costs. Potential risk of excess or differential settlement following construction, resulting in damage and/or collapse to structures, making them unsuitable for use.	3	4	12	Substantial	Continue groundwater monitoring and review data prior to construction to confirm assumptions are appropriate with those outlined in this GIR. Make conservative design assumptions during the design. Carry out design such that minor variations in ground conditions can be catered for. Strong, experienced site team required throughout construction to assess whether or not design assumptions have been satisfied.	2	4	8	Significant
2	Compressible Alluvium– - Peat/ Cohesive/ Granular deposits identified during the ground investigation.	Potential risk of excess and differential settlement following construction, resulting in damage and/or collapse of structures, making them unsuitable for use.	2	4	8	Substantial	Remedial measures under consideration to reduce secondary consolidations and settlements include: • Excavation and replacement with granular fill.	1	4	4	Trivial

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Risk assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
							<ul style="list-style-type: none"> Band drains and associated hold periods. Additional remedial and/or ground improvement measures may need to be considered as part of the detailed design stage.				
3	Area of made ground of unknown origin in the open land to the north of Simister Island interchange.	Unknown material properties and extents with potential risk to new earthworks and bridge abutment due to excess and differential settlement or potential contamination risk leading to environmental and health risks. Increased disposal costs, possible delay to programme.	3	3	9	Substantial	Ground investigation has encountered Made Ground which has been characterised separately and assigned individual design parameters. Remedial and/or ground improvement measures may need to be considered as part of the detailed design stage.	1	3	3	Trivial
4	Asbestos fibres in Made Ground (Engineering Fill and Pulverised Fuel Ash).	Inhalation of asbestos fibres by construction and maintenance workers, as well as adjacent site users, during future intrusive works (e.g., excavations).	3	3	9	Substantial	Commission an asbestos management plan to detail the location of asbestos soil contamination, identify relevant duty holders, confirm the HSE licensing status of future works, and recommend asbestos control measures for future intrusive works.	2	3	6	Significant

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Rick assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
5	Ground gases in confined spaces and excavations.	Inhalation of hazardous ground gases (carbon dioxide and methane) by construction and maintenance workers, and potential for explosion, within excavations and confined spaces.	3	4	12	Substantial	Commission task and site-specific assessments for below ground works, considering the potential for hazardous gas concentrations to accumulate in excavations and confined spaces. Where required, appropriate working methods, including the use of appropriate respiratory protective equipment (RPE), should be developed, and adopted by the Contractor.	2	4	8	Significant
6	Aggressive ground conditions from made ground and engineered fill; including PFA and Alluvium – Peat/ Cohesive/ Granular.	Damage to buried concrete, metal and pipework resulting in loss of integrity.	3	3	9	Substantial	Design sulfate and ACEC class has been determined based on laboratory results for each unit. Corrosivity of the sheet piles has been reviewed and suitable pile sections shall be chosen during the detailed design stage. Location specific assessments for aggressivity with respect to piling will be undertaken as part of the detailed design.	1	3	3	Trivial

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Rick assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
7	Tying in the existing highway embankments constructed from PFA with the proposed widened earthworks.	Impact to earthwork stability, settlement, differential settlement, resulting in additional remedial works, potential road closures and additional Scheme costs.	3	3	9	Substantial	Embankment construction established as part of ground investigation. Appropriate interface details between new and existing earthworks such as benching. Appropriate design for settlement considered, e.g., hold periods.	1	3	3	Trivial
8	Tying in the existing earthworks with the re-grading and widening of proposed earthworks and changes to loading/over-steepening of slopes.	Impact to earthwork stability, settlement, differential settlement, including risk of differential settlement, resulting in additional remedial works, potential road closures and additional Scheme costs.	3	4	12	Substantial	Embankment construction established as part of ground investigation. Appropriate interface details between new and existing earthworks such as benching. Appropriate design for settlement considered, e.g., hold periods.	1	4	4	Trivial
9	Tying in existing structures and re-graded/ widened earthworks.	Impact to existing earthwork stability, including risk of differential settlement and loss of	3	4	12	Substantial	Embankment construction established as part of ground investigation.	1	4	4	Trivial

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Risk assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
		support to structural foundations, resulting in additional remedial works, potential road closures and additional Scheme costs.					Reduction in width of central reserve (construction of concrete barrier) increases total width available for carriageway within existing formation and minimises need for widening. Reduction of verge width by management of drainage, ducting, barriers, etc. Appropriate interface details between new and existing earthworks such as benching. Appropriate design for settlement considered, e.g., hold periods.				
10	Existing earthwork defects that will not be affected as part of the proposed Scheme works.	Additional costs if defects need stabilising as part of the works. Any existing defects in embankments to be widened could lead to failures in new earthworks if not fully removed before construction commences.	2	3	6	Significant	There are a small number of defects which are within the Scheme boundary but there are no proposed works in the vicinity. These earthworks will continue to be inspected as part of the usual inspection regime.	2	3	6	Significant

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Rick assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
11	Existing earthwork defects that will be removed as part of the proposed Scheme works.	Additional costs if defects need stabilising as part of the works. Any existing defects in embankments to be widened could lead to failures in new earthworks if not fully removed before construction commences.	3	4	12	Substantial	These defects are located within an area of proposed Scheme works and therefore they will be picked up as part of the works.	1	4	4	Trivial
12	Material excavated from cuttings/attenuation ponds cannot be reused.	Increased costs sourcing additional material, possible delay to programme.	2	3	6	Significant	Contractor to classify materials in accordance with the earthworks specification to ensure that appropriate materials are sourced. Material unsuitable for reuse as a general fill, may be suitable for reuse as a landscape fill.	2	3	6	Significant
13	Uncertainty around nature and extent of the reinforced earth in the embankment west of Haweswater Aqueduct in the slopes between Ch. 2170-2320.	Additional costs, time delays and redesign if the reinforced earth is found to be in poor condition or interacting with the proposed design solution.	3	4	12	Substantial	Hand dug pits were undertaken during the ground investigation under the supervision of a geotechnical engineer. Reinforcement was identified. Proposed works will consider extents that were identified	1	4	4	Trivial

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Rick assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
							and include adoption of a suitable solution.				
14	Construction of retaining wall in steepened / geotextile reinforced slopes.	Additional costs and time delays to redesign an appropriate solution.	3	4	12	Substantial	Retaining wall at this location is proposed to be constructed at the slope toe with a slope behind to facilitate the widened highway. The wall will no longer be at the slope crest and go through the steepened/ geotextile reinforced slopes. The slope will need to be constructed with appropriate interface details such as benching and consider appropriate design for differential settlement i.e. hold periods.	1	4	4	Trivial
15	Potential for differential settlement in areas of embankment widening.	Potential risk of excess and differential settlement following construction, resulting in damage and/or collapse of structures, making them unsuitable for use.	3	3	9	Substantial	Ground investigation has identified areas of Alluvium – Peat/ Granular/ Cohesive and softer/looser deposits. Remedial measures as detailed above will be considered for the Alluvium - Peat/ Granular/ Cohesive. Additional	1	3	3	Trivial

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Rick assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
							remedial and/or ground improvement measures may need to be considered as part of the detailed design stage, in areas of new embankment construction. During detailed design stage embankment heights can be designed to a construction height to account for predicted settlement.				
16	Unfavorable ground conditions for sheet piling construction (cobbles in till and layers of dense granular material).	Delay and increased costs due to difficulties with method of installation. Granular water bearing layers cause washout of material.	3	3	9	Substantial	Ground investigation has been undertaken to identify the ground conditions. Consider an appropriate piling methodology during the detailed design stage.	2	3	6	Significant
17	Investigation deferred until Stage 5 for new Portal Gantry 0203 westbound and new Portal	Unknown ground and groundwater conditions at gantry locations.	3	4	12	Substantial	Make conservative design assumptions during the design. Carry out design such that minor variations in ground conditions can be catered for.	3	3	9	Substantial

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Risk assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
	Gantry 0207 eastbound.										
18	High groundwater/flooding.	Potential flooding of new excavations and slope instability of new slopes. Delays to construction programme and additional costs.	3	3	9	Substantial	Continue groundwater monitoring and review data prior to construction to confirm assumptions are appropriate with those outlined in this GIR. Make allowance in design for installation of additional slope drainage. Any areas of suspected high groundwater where excavations are to be taking place to be highlighted to the contractor for consideration in their temporary works design.	2	3	6	Significant
19	Presence of cohesive layers with the Glaciofluvial Ice Contact Deposits.	Potential for slope instability.	3	3	9	Substantial	Parameters for the cohesive portion derived from the testing available, with reference made to literature to allow this risk to be considered further at detailed design.	2	3	6	Significant

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Risk assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
20	Hydrocarbon odour in made ground of WS-N01, from 3.80-4.20m.	Suspected hydrocarbon contamination has not been quantified and poses an exposure risk to construction workers during ground works.	3	2	6	Significant	The suspected, but not confirmed, soil contamination will be managed through the adoption of a watching brief and a discovery strategy in accordance with the Contaminated Land Management Plan, as detailed in subsection 9.7	2	2	4	Trivial
Other known construction risks											
21	Underground services including existing highway drainage.	Risk of utility strike during construction works. Utilities unable to be realigned as part of the Scheme, requiring incorporation into design.	4	4	16	Intolerable	Utility search to be undertaken ahead of any intrusive works to determine the extent and location of buried services. Location of existing services to be considered early during the design stage to determine whether realignment is possible. Location of the pipes to be established and marked on site prior to any construction.	2	4	8	Significant
22	Underground services (high pressure water)	Risk of utility strike during construction works. Utilities unable to be	4	4	16	Intolerable	Liaison with Untied Utilities to discuss options for construction and requirements	2	4	8	Significant

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Rick assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
	mains distribution pipes) at Haweswater underbridge.	realigned as part of the Scheme, requiring incorporation into design.					for service protection. Location of the pipes to be established and marked on site prior to any construction.				
23	Overhead electricity transmission line (OHL) located to the south of the M60/M62 between Junction 17 and 18.	Risk of arcing to large pieces of construction equipment. Utilities unable to be realigned as part of the Scheme, requiring incorporation into design.	4	4	16	Intolerable	Location and offset from the OHL to be determined prior to setting up for construction works.	2	4	8	Significant
24	Unknown cable in verge identified in BHG07A during 2021 ground investigation, in proximity of proposed gantry at Ch. 1300 westbound.	Risk of utility strike during construction works. Utilities unable to be realigned as part of the Scheme, requiring incorporation into design.	4	4	16	Intolerable	The location of the identified cable is to be established and marked on site prior to any construction.	2	4	8	Significant
25	A possible service in verge identified in WS08 during 2023 ground investigation, in proximity of proposed gantry at Ch. 1950	Risk of utility strike during construction works. Utilities unable to be realigned as part of the Scheme, requiring incorporation into design.	4	4	16	Intolerable	The location of the identified cable is to be established and marked on site prior to any construction.	2	4	8	Significant

Risk No.	Hazard	Consequence	Risk assessment (comment)				Mitigation measure	Risk assessment (mitigation)			
			L	E	P	Risk level		L	E	R	Risk level
	westbound. Mining risk has already been ruled out at this location.										

8. Engineering Assessment

8.1 General

Engineering proposals in order to facilitate the upgrade of the existing M60/M62/M66 Simister Island interchange requires the installation and construction of new gantries, retaining structures, bridges and earthworks, in addition to the localised modification of existing earthworks to accommodate widening.

It is expected that the currently defined locations for gantries and retaining structures are likely to be adjusted during the design process, and consequently designs will be adopted that are flexible enough to accommodate changes in location and possible ground conditions. Whilst local changes in ground conditions could influence changes in foundation designs, the limited range parameters proposed should limit any need for changes.

8.2 Gantry Foundations

It is anticipated that all gantry bases will be piled in order to limit the risks of inadequate foundations. Further limiting the scope of temporary works requiring additional movements of plant and equipment on the motorway network. In addition, the large eccentric forces due to cantilever or wind loading result in spread foundations not working in design.

A method for gantry construction will be decided at detail design.

In addition to the gantry foundations, it is usual for build outs, supported by low retaining walls, to accommodate the cabinets and walkways.

8.3 Retaining Structures

Due to the proximity of the site to the surrounding urban environment, retaining structures are proposed to accommodate the required widening, particularly along the M60/M62 and M66 carriageways.

At this stage the lower height retaining walls are anticipated to be gravity walls, and the larger retained heights will be cantilever sheet pile walls. However, these designs will be optimised during the detailed design stage.

Due to the presence of gravel bands and cobbles identified in the Glacial Till an appropriate piling methodology will need to be considered during detailed design.

8.4 Bridge Abutments/ Piers

It is anticipated that for Pike Fold viaduct and bridge, the abutment and piers will be piled in order to limit the risks of inadequate foundations. Further limiting the scope of temporary works requiring additional movements of plant and equipment on the motorway network. In addition, the large eccentric forces due to cantilever or wind loading result in spread foundations not working in design.

A method for the bridge abutment and pier construction will be decided at detail design.

8.5 Earthworks

8.5.1 Embankments

New earthworks will be required in areas of proposed widening and will be required for:

- Pike Fold Viaduct Approach Embankments.
- Northern Loop Earthworks.
- Pike Fold Bridge Approach Embankments.

Localised modifications to existing earthworks are also anticipated within the Scheme. It is proposed that a slope gradient of 1V:3H will be used for new earthwork slopes as it is unlikely that embankments will remain stable in long term at slope gradients in excess of this. However, this will be confirmed during detailed design dependent upon the local ground conditions.

8.5.2 Cuttings

Widening of existing cutting slopes is anticipated in areas where carriageway widening is proposed. It is proposed that a slope gradient of 1V:3H will be used for new earthwork slopes as it is unlikely that cuttings will remain stable in long term at slope gradients in excess of this. However, this will be confirmed during detailed design dependent upon the local ground conditions.

Particular care should be taken when the design requires a steeper gradient and reinforcement is required, such as soil nailing. If soil nailing is required, it is recommended that this is done in benched stages in a top down manner. If steepening is proposed using gravity retaining structures, such as concrete walls of gabions, these should be excavated and installed in bays, typically no more than 10m wide, although this should be confirmed at detailed design stage, with consideration of temporary works.

8.6 Drainage

Earthworks drainage will take the form of longitudinal toe drains in cuttings and open drains at the crest of cuttings and toe of embankments. Where space is limited filter drains will be used within the embankments. Herringbone drainage may be required in cut slopes.

6No. new attenuation ponds are proposed as part of the Scheme. The ponds are proposed to be lined and their design will be reviewed during the detailed design stage.

8.7 Subgrade

New subgrade is proposed in areas of earthwork widening and will also be required for the new highway at:

- Pike Fold Viaduct.
- Northern Loop.
- Pike Fold Bridge.

A potential risk to stem from these widened carriageways is the quality of earthwork compaction and the subgrade at the interface between the existing and widened earthworks.

The design of subgrade and pavement thicknesses for the proposed works will be dependent on either the in-situ subgrade in areas of cutting, or the type of fill material used for embankment construction and should be carried out in accordance with CD 226 (National Highways, 2021).

Much of the Scheme will be constructed on new earthworks and the CBR is likely to be dictated by the imported fill.

8.8 Peat Treatment

Alluvium - Peat/ Granular/ Cohesive has been recorded in a number of boreholes during the ground investigation. As the majority of this material is shallow, where Alluvium - Peat is located within the footprint of new earthworks, the Alluvium - Peat will be excavated and replaced with granular fill to reduce the potential for secondary consolidation. The material to be excavated will comprise Alluvium - Peat only and will not include the adjacent layers of soft and loose Alluvium – Granular/ Cohesive.

Adjacent to the Alluvium - Peat encountered during the ground investigation was layers of soft and loose material (Alluvium – Cohesive/ Granular) that have the potential to cause large settlements to the proposed new earthworks. It is proposed at these locations to install band drains to speed up settlement and improve foundation strength. The thickness of these deposits is typically 7m.

At each location, the preferred type of treatment will be decided upon by a case-by-case basis.

8.9 Existing Earthwork Defects

There are some existing earthworks defects located within the Scheme boundary. Some of these defects have proposed works in the vicinity and therefore they will be picked up as part of the proposed works and either remediated or removed based upon the proposed earthwork design at that location. However, there are also some earthworks defects that are located within the Scheme boundary that do not have any works proposed in the vicinity. These earthworks defects will not be remediated as part of the Scheme and will continue to be inspected as part of the usual inspection regime.

8.10 Bedrock

Bedrock comprising the Pennine Coal Measure is not anticipated to be encountered within the Scheme due to the thickness of the superficial deposits. However, bedrock may be encountered at depth at the new gantry locations on the M66 carriageway if a piled foundation design is adopted.

The abutments and piers for Pike Fold Viaduct and Pike Fold Bridge will be piled. It is anticipated that bedrock may be encountered at these locations dependent upon the final pile design depth. This will be confirmed during detailed design.

8.11 Groundwater

Groundwater is present across the Scheme as perched groundwater in gravel lenses and granular layers within the wider cohesive units of the Scheme. Groundwater maybe to be encountered in excavations for the foundations, ponds and new cutting slopes. Encountering shallow groundwater has the potential to flood new excavations and cause instability of new cut slopes.

The ground investigation has targeted the proposed locations of the attenuation ponds to determine the ground water level to ensure suitable design. Issues that maybe anticipated with the attenuation ponds for the Scheme include:

- Granular material comprising Alluvium - Granular, Glaciofluvial Ice Contact Deposits and Glacial Till- Granular in the base and slopes of the attenuation ponds.
- If shallow groundwater is encountered at the location of an attenuation pond uplift of the formation and flooding of attenuation basin decreasing capacity should be assessed.

These issues will be considered fully at detailed design.

8.12 Material Reuse

Material excavated from offline areas of the Scheme is likely to be unsuitable for reuse as it is expected to comprise Alluvium - Peat and associated soft material. Material excavated as part of the widening of existing highways earthworks may be suitable for reuse, however the suitability should be assessed on site. Any topsoil removed during construction should be stockpiled for reuse after completion of the works. Refer to subsections 9.2 and 9.5.

9. Geo-environmental conclusions and recommendations

9.1 Risks to Human Health

The human health risk assessment has confirmed that there is no widespread soil contamination, within the Scheme boundary, that poses a risk to human health. However, loose Chrysotile and Amosite asbestos fibres were recorded locally in made ground (BH-G10, WS04, WS09, and WS10), which poses a risk to construction workers, future maintenance workers, and adjacent residents and land users during construction.

The risk to construction and future maintenance workers associated with this asbestos has been assessed as Moderate, whilst the risk to adjacent residents and land users has been assessed as Moderate/Low.

The risk associated with asbestos will need to be mitigated through the development of working methods and risk assessments in accordance with the Control of Asbestos Regulations (CAR) 2012 (Health and Safety Executive, 2012) and CAR-SOIL industry guidance (Contaminated Land: Applications in Real Environments, 2016).

It is considered that an asbestos management plan should be commissioned to detail the location of asbestos soil contamination, identify relevant duty holders, confirm the HSE licensing status of future works, and recommend asbestos control measures for future intrusive works. The asbestos management plan should be appended to a remediation strategy (if required) and construction phase plan, as well as the health and safety plan thereafter, for the Scheme.

9.2 Risk to Controlled waters

The potential impact on controlled waters from soil leachate and groundwater contaminant exceedances is not considered significant and does not warrant any remediation to facilitate the proposed Scheme.

Most of the soil leachate and groundwater chemical exceedances, recorded during the controlled waters risk assessment, are considered to be reflective of conservative leachate testing methods, conservative WQS, and diffused groundwater contamination or background concentrations within the wider area, rather than on-site contamination sources.

The risk to Secondary aquifers in the superficial deposits, and surface water bodies, associated with elevated soil leachate, has been assessed as Moderate/Low, while the risk to the Secondary A and Principal aquifers in bedrock (Pennine Coal Measures and Chester Formation, respectively) has been assessed as Low. The risk to surface water bodies, associated with elevated groundwater contaminants in the made ground and superficial deposits, has been assessed as Moderate/Low, while the risk to bedrock aquifers has been assessed as Low. The risk to licensed groundwater abstractions, associated with elevated groundwater contaminants in the made ground and superficial deposits, has been assessed as Moderate/Low.

However, there is uncertainty regarding the source of the Thiocyanate groundwater exceedances in BH-N04 and WS-N02B, which exhibit concentrations three orders of magnitude above the WQS. Furthermore, only one round of groundwater sampling and no surface water sampling have been undertaken to date to ensure a sufficient, reliable, and representative controlled waters risk assessment. Therefore, further groundwater and surface water sampling should be undertaken prior to and during the construction phase works to understand baseline conditions and inform future controlled water risk assessments for the study area. Furthermore, the presence of private or unlicensed groundwater abstractions within the study area and surrounding 1km radius cannot be

ruled out at this stage, therefore enquiries should be made with Bury Council to determine the presence and location of any private abstractions.

It is understood that the proposed Scheme will involve the excavation, movement, and reuse of soils. The proposed Scheme should look to minimise and limit the impact to the water environment. Therefore, a detailed quantitative risk assessment should be commissioned, in accordance with Series 600, Annex 6/14 (National Highways, 2017) and Remedial Target Methodology: Hydrogeological Risk Assessment for Land Contamination (Environment Agency, 2006), to derive site specific WQS to facilitate the reuse of site-won soils.

Any reuse of made ground soils within the Scheme boundary should be undertaken in accordance with the CL:AIRE Definition of Waste Code of Practice (Contaminated Land: Applications in Real Environments, 2011) and/or the Environmental Permitting Regulations (England and Wales) Regulations 2016 (UK Government, 2016).

9.3 Ground Gas

The ground investigations to date have identified visual and laboratory evidence of low degradable organic materials within the made ground of the mound, M60/M62 embankment and Landfill Site 2, which conforms to the initial conceptual site model that these potential sources of ground gas have low gas generation potentials. The presence of locally elevated ground gas concentrations, trapped in the made ground, pose a potential hazard to construction and maintenance workers during the construction and operational phase. As previously stated, risks to adjacent residential properties have been scoped out due to the absence of viable PPLs.

Exceedances, in respect to long-term and short-term Workplace Exposure Limits (WELs), were recorded for carbon dioxide and methane above the Lower Explosive Limit (LEL), on several occasions during the monitoring programme. Furthermore, depleted oxygen concentrations were recorded in a number of monitoring wells. The recorded ground gas concentrations pose a risk to construction and maintenance workers operating in excavations and confined spaces.

Consequently, task and site-specific assessments will be required for below ground works, considering the potential for hazardous gas concentrations to accumulate in excavations and confined spaces. Where required, appropriate working methods, including the use of appropriate respiratory protective equipment (RPE), should be developed, and adopted by the Contractor.

9.4 Piling

The proposed Scheme will involve the installation of pile foundations to support new bridges and gantries. At this stage, it is understood that pile foundations will terminate within the superficial deposits, and not penetrate the underlying Pennine Coal Measures and Chester Formation, which are classified as Secondary A and Principal aquifers, respectively.

The ground investigation has identified leachable metal, inorganic and organic contaminants in the made ground and natural ground, and elevated metal and inorganic contaminants have been recorded in groundwater within the made ground and superficial deposits. Should the installation of pile foundations into the Chester Formation be required, it has the potential to create preferential pathways and the following pollutant linkages:

- Leaching of soil contaminants into the Principal aquifer;
- Vertical migration of contaminated perched/superficial groundwater into the Principal aquifer; and,
- Concrete slurry impacting the Principal aquifer.

Therefore, should the pile designs change, requiring deeper penetration into the Chester Formation, consideration should be given to commissioning a foundation works/piling risk assessment.

9.5 Materials Reuse and Environmental Management Plans

In general, the human health risk assessment indicates that soils within the Scheme boundary do not represent a risk to human health. However, possible impacts to human health from discrete pockets of asbestos fibres in the made ground are possible. The risk associated with asbestos will need to be mitigated through the development of working methods and risk assessments in accordance with the Control of Asbestos Regulations (CAR) 2012 (Health and Safety Executive, 2012) and CAR-SOIL industry guidance (Contaminated Land: Applications in Real Environments, 2016). If asbestos material is found or suspected to be present during construction works, the material should be segregated, inspected, and tested by a specialist asbestos contractor. The disposal of any asbestos materials, or asbestos contaminated soils, should only be undertaken by a licensed asbestos contractor.

The controlled waters risk assessment indicates that the soils and groundwaters do not warrant any remediation to facilitate the proposed Scheme. However, given EA guidance (Environment Agency, 2006), the proposed Scheme should look to minimise further entry of contaminants and limit the potential pollution of the water environment.

Given that the proposed Scheme will require the reuse of site won material, It is recommended that this is completed in accordance with the waste management regime and guidance set out within the CL:AIRE Definition of Waste: Development Industry Code of Practice (DoWCoP) (Contaminated Land: Applications in Real Environments, 2011). As such, it would be necessary for the Contractor to produce a Materials Management Plan, clearly detailing the proposed materials management Scheme for the site.

It should be noted that the soils contained within Landfill Site 2 (see section 2.7 for further details), although unlikely to pose a significant risk, fall outside the scope of CL:AIRE DoWCoP (Contaminated Land: Applications in Real Environments, 2011), as they were previously defined as waste. The EA have been consulted to confirm if the inert landfill soils would still be defined as waste and what environmental permitting mechanisms are available to facilitate reuse of these soils. As a precaution, contingency allowances should be made to reuse the inert landfill soils in accordance with a waste recovery plan and bespoke environmental permit, under the Environmental Permitting (England and Wales) Regulations (UK Government, 2016).

9.6 Dewatering

It is understood that dewatering activities will be undertaken to facilitate cuttings/excavations during the earthworks phase of the proposed Scheme.

Any groundwater abstraction with flow rates greater than 20m³/day requires an abstraction licence from the EA.

Unless dewatering pumping is undertaken for less than three months and water is uncontaminated/will not cause adverse effects to aquatic life, an environmental permit is required for the discharge of dewatering flows to surface water or groundwater.

Discharges to the public sewers will require trade effluent consent from the regional water company (United Utilities).

Should water treatment technologies be required to remove contaminants or otherwise treat water before discharge, a mobile plant permit and deployment form will be required from the Environment

Agency for the groundwater treatment plant under the Environmental Permitting Regulations (England and Wales) Regulations 2016 (UK Government, 2016).

9.7 Unforeseen Contamination

There are inherent uncertainties associated with environmental sampling of heterogeneous subsurface materials and the potential for encountering unidentified/unforeseen contamination remains. Therefore, it is recommended that a discovery strategy, to deal with unexpected ground contamination, is commissioned, and a watching brief is maintained for potential contamination during groundworks.

The discovery strategy will be carried out in accordance with the Contaminated Land Management Plan (CLMP) and provide detailed steps on how to deal with unexpected ground and/or groundwater contamination encountered during enabling and construction works for the proposed Scheme. In summary, these steps will comprise the following:

1. The Principal Contractor (PC) shall stop work in the vicinity of the impacted area.
2. The PC shall cordon off the impacted area and notify all site staff of the presence of contamination.
3. The PC shall ensure that the impacted area is safe and secure while an investigation is undertaken by a suitably qualified person (appointed geo-environmental engineer).
4. Contamination shall be reported to the Principal Contractor (PC) Project Manager and PC Environmental Lead. The PC will then be responsible for informing Secretary of State for Transport, the Environment Agency, and the relevant local authority, and seek expert advice from a suitably qualified specialist.
5. The PC shall undertake a risk assessment to minimise the risk to health and safety of site workers, including the identification of suitable PPE to mitigate any potential exposure and acceptable working methods.
6. The PC shall contact the appointed geo-environmental engineer and detail the location, extent and nature of the contamination discovered.
7. Appointed geo-environmental engineer shall visit site to implement an appropriate sampling and analytical regime, taking due account of the type and nature of the discovered contamination and the environmental setting.
8. Appointed geo-environmental engineer shall prepare a record detailing the discovered contamination, assessment works undertaken, findings thereof, and confirmation on whether remedial action is required following discussion with the regulator and relevant stakeholders.
9. The PC shall ensure all method statements for ongoing works in the impacted area are aligned with the geo-environmental engineer's recommendations to undertake assessments on the contaminated material (e.g., chemical testing during construction activities).
10. If required, the appointed geo-environmental engineer shall develop a remediation strategy and obtain approval from the regulator.
11. The PC shall implement remediation and verification works as per the remediation strategy.
12. The PC shall prepare a verification report, with assistance from the appointed geo-environmental engineer, if required. The verification report shall include the location of contamination and details of the testing and remediation undertaken.

13. If required, the PC shall complete hazardous waste assessments to classify any waste material in accordance with the Technical Guidance WM3. WAC testing will be done throughout the operations to ensure that the landfill operators can accept the waste.

9.8 Preliminary Waste Classification

The preliminary hazardous waste assessment indicates that most of the soil samples collected within the Scheme boundary are non-hazardous, based solely on their chemical laboratory results.

Soil samples collected from BH05 (1.0m), BH06 (1.0m), BH07 (1.0m and 2.0m), WS08 (0.3m) and WS-N11 (0.5m) were found to be hazardous, due to carcinogenic and mutagenic properties associated with TPH soil contamination.

Most of the soil samples were found to contain no asbestos materials or fibres. However, BH-G10 (0.5m), WS04 (2.0m), WS09 (2.0m), and WS10 (3.5m) were found to contain loose asbestos fibres, with fibre concentrations between <0.001% and 0.003%w/w. Given that the percentage of asbestos fibres within these soil samples were less than 0.1% by weight, the associated waste soils are non-hazardous and can be disposed of within a non-hazardous waste landfill, which is permitted to accept asbestos at the non-hazardous concentrations.

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Annex A. Geological Long Section and Plan

HE548642-JAC-HGT-SII_MLT-DR-GI-1001
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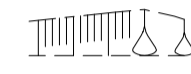





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
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2. GROUND INVESTIGATION DATA HAS BEEN TAKEN FROM:
 - M60/M62/M66 SIMISTER ISLAND INTERCHANGE FACTUAL REPORT ON GROUND INVESTIGATION, IAN FARMERS ASSOCIATES, 2022, GDMS NO. 45140
 - M60/M62/M66 SIMISTER ISLAND INTERCHANGE POND 2 AND POND 6, AEG, 2023, GDMS NO. 45141
 - M60, M62, M66 SIMISTER ISLAND INTERCHANGE GROUND INVESTIGATION: OPTION 2, AEG, 2023, GDMS NO. 45142
3. DISTANCE & LEVELS ARE IN METRES UNLESS OTHERWISE STATED.
4. EXAGGERATED VERTICAL SCALE (10:1)
5. BOREHOLES HIGHLIGHTED IN YELLOW HATCH ON THE PLAN DENOTES BOREHOLES USED IN EACH CROSS SECTION.
6. TOPOGRAPHY HAS BEEN INFERRED BETWEEN BOREHOLES BASED UPON S-VTO-SII_MT-03 MODEL.



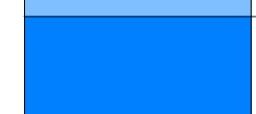
LEGEND:

PLAN VIEW:

-  EARTHWORKS
-  SECTION LINE
-  TRIAL PIT LOCATION
-  BOREHOLE LOCATION
-  HAND PIT LOCATION
-  RELEVANT GI SHOWN ON SECTION


LONG SECTION:


-  EXISTING GROUND LEVEL
-  PROPOSED ROAD LEVEL
-  GROUNDWATER RISE
-  GROUNDWATER STRIKE

	Made Ground
	Topsoil
	Alluvium - Peat/ Cohesive/ Granular
	Glaciolacustrine Deposits
	Hummocky Glacial Deposits
	Glaciofluvial Deposits
	Glaciofluvial Ice Contact Deposits
	Glacial Till- Cohesive
	Glacial Till- Granular
	Pennine Coal Measures
	No Recovery

Drawing Number	Drawing Coverage Description
HE548642-JAC-HGT-SII_MLT-DR-GI-1101	N/A- Cover Sheet
HE548642-JAC-HGT-SII_MLT-DR-GI-1102	Eastbound M60/M62 carriageway constructed using boreholes undertaken on the eastbound carriageway and earthwork slopes to north of the carriageway.
HE548642-JAC-HGT-SII_MLT-DR-GI-1103	Eastbound M60/M62 carriageway constructed using boreholes undertaken on the eastbound carriageway and earthwork slopes to north of the carriageway.
HE548642-JAC-HGT-SII_MLT-DR-GI-1104	Proposed alignment of the new link road diverging from the eastbound M60/M62 carriageway and connecting to the southbound M60/M66 mainline carriageway. Drawing constructed using boreholes undertaken along the new alignment.
HE548642-JAC-HGT-SII_MLT-DR-GI-1105	Proposed alignment of the new link road diverging from the eastbound M60/M62 carriageway and connecting to the southbound M60/M66 mainline carriageway. Drawing constructed using boreholes undertaken along the new alignment.
HE548642-JAC-HGT-SII_MLT-DR-GI-1106	Westbound M60/M62 carriageway constructed using boreholes undertaken on the westbound carriageway and earthwork slopes to south of the carriageway.
HE548642-JAC-HGT-SII_MLT-DR-GI-1107	Westbound M60/M62 carriageway constructed using boreholes undertaken on the westbound carriageway and earthwork slopes to south of the carriageway.
HE548642-JAC-HGT-SII_MLT-DR-GI-1108	Southwest corner of Simister Island Interchange, slip road for westbound M60/M62 and northbound M66 carriageways. Drawing constructed using boreholes undertaken on the westbound M60/M62 carriageway and earthwork slopes to south, southwest and west of the M60/M62 and M66 carriageways.
HE548642-JAC-HGT-SII_MLT-DR-GI-1109	Southbound M66 carriageway constructed using boreholes undertaken on the southbound M66 carriageway and in the adjacent slip roads and land to the immediate west of the carriageway.
HE548642-JAC-HGT-SII_MLT-DR-GI-1110	Southbound M66 carriageway constructed using boreholes undertaken on the southbound M66 carriageway and in the adjacent slip roads and land to the immediate west of the carriageway.

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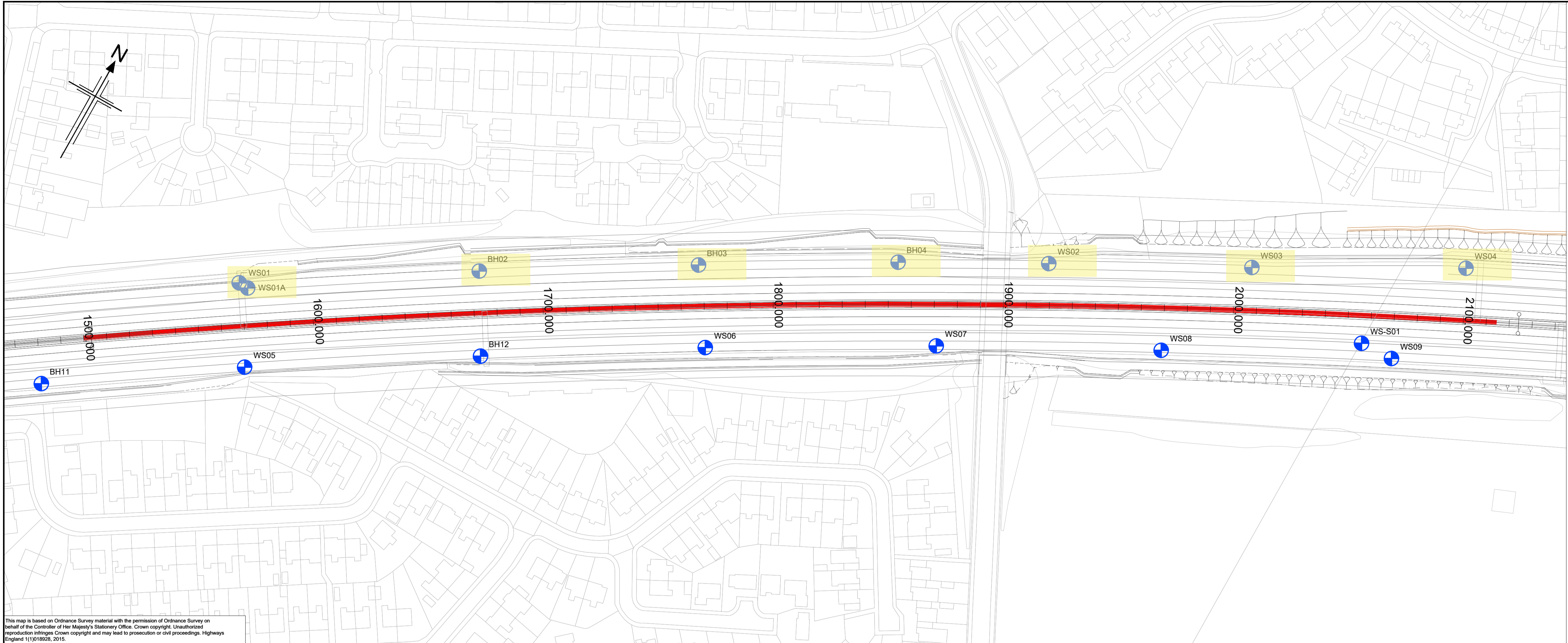
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Scale	AS SHOWN@N/A	Rev	P02
Jacobs No.	B36601F0	Client no.	HE548642

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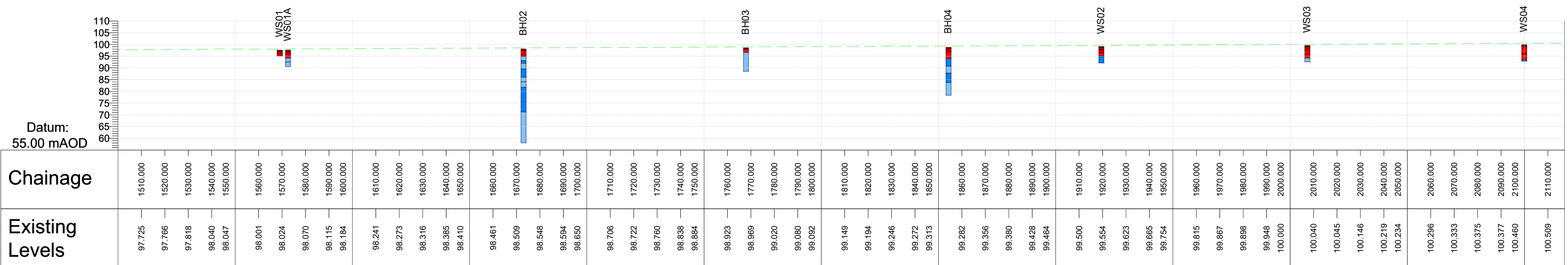
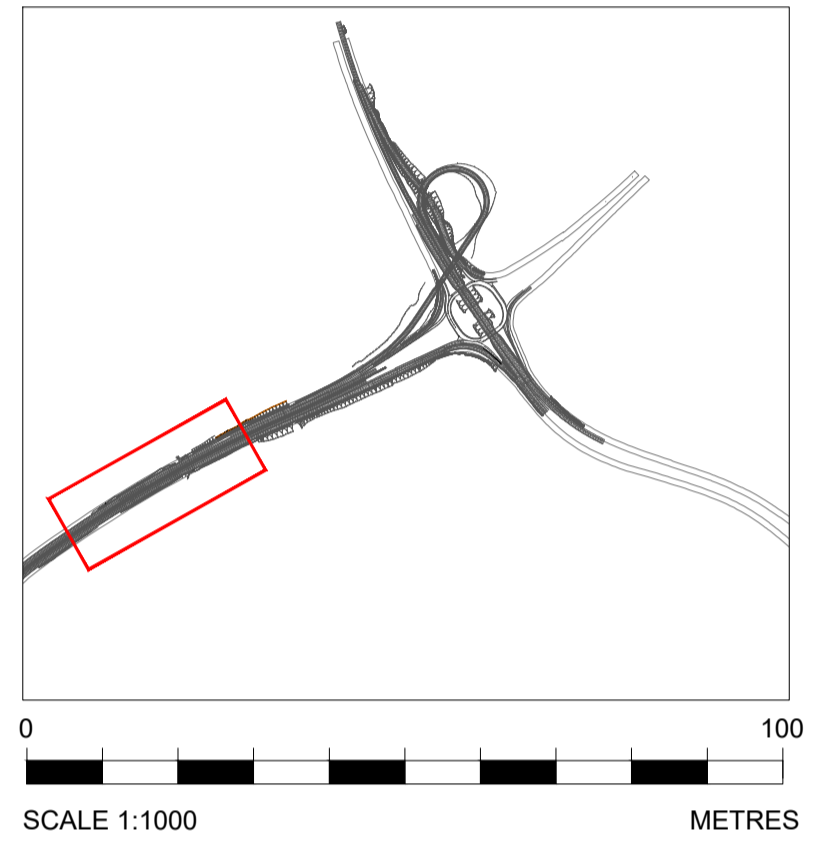


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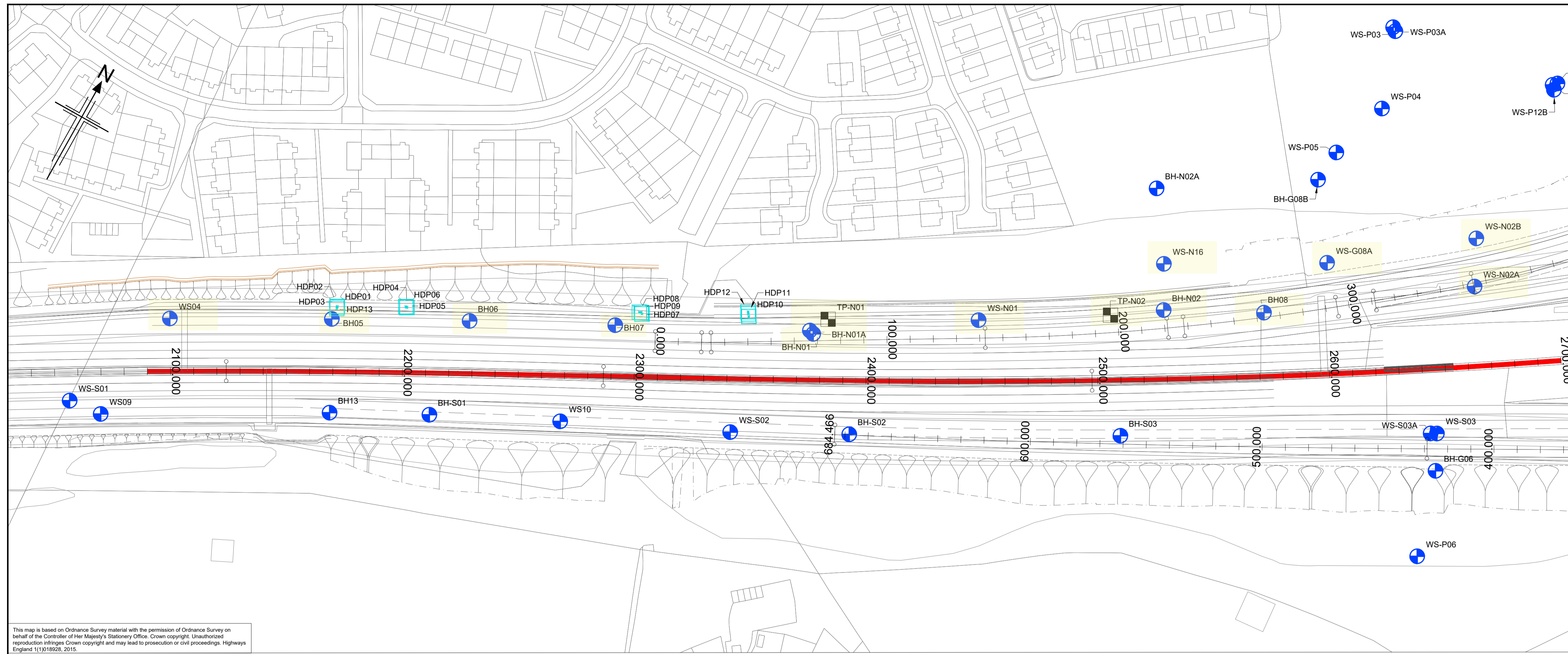
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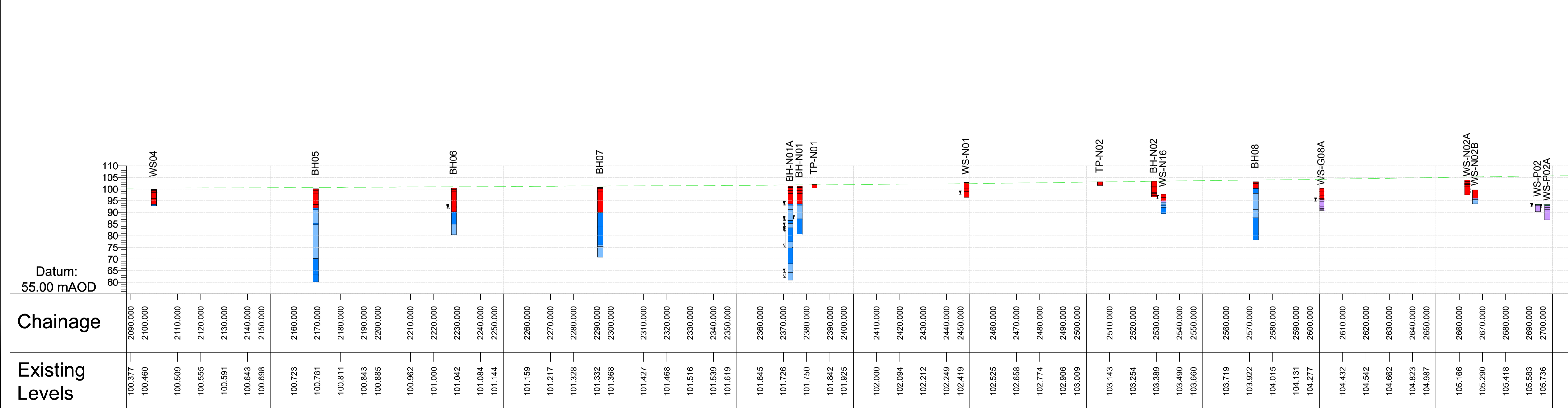
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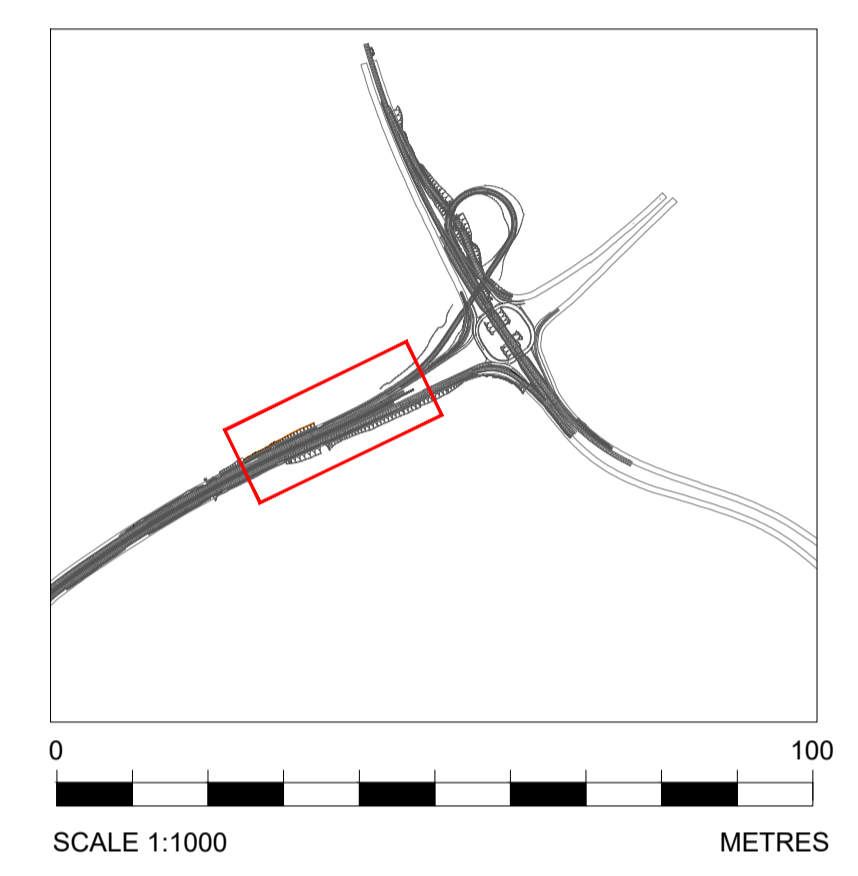


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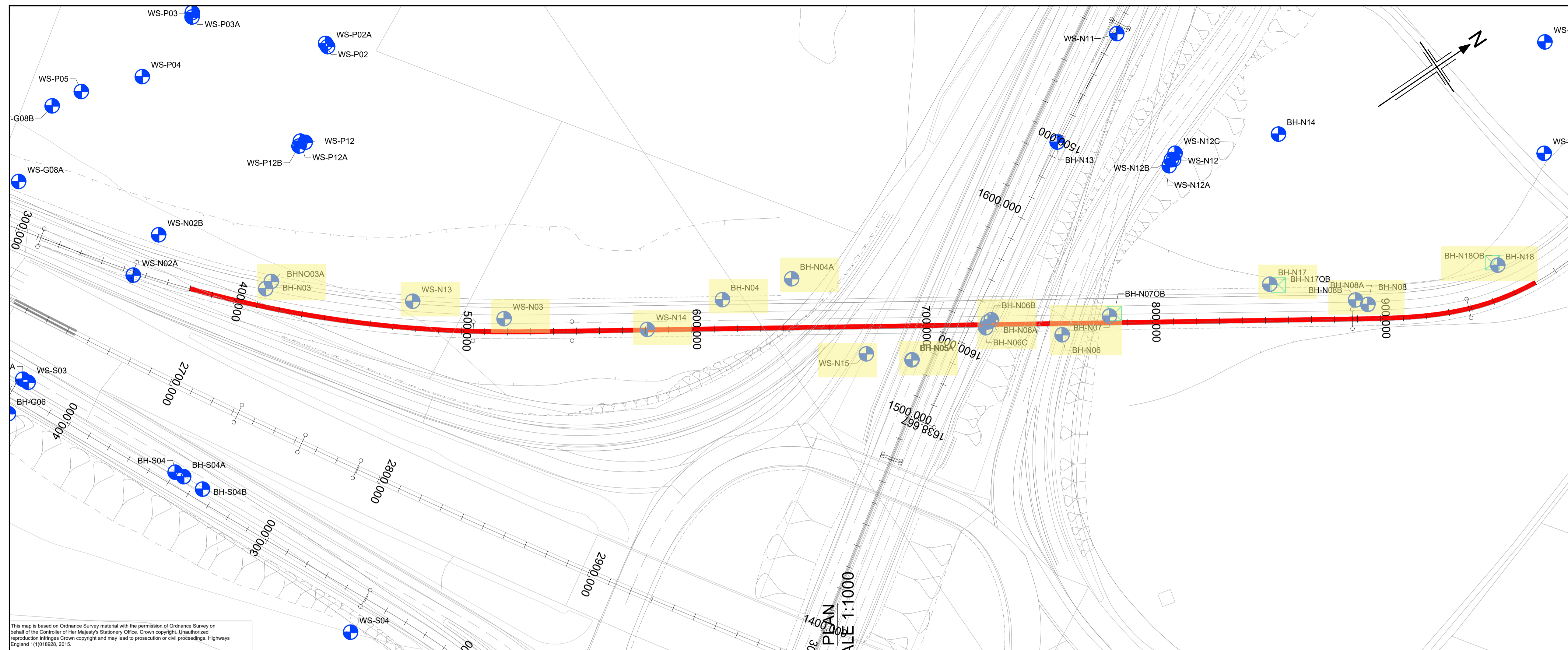


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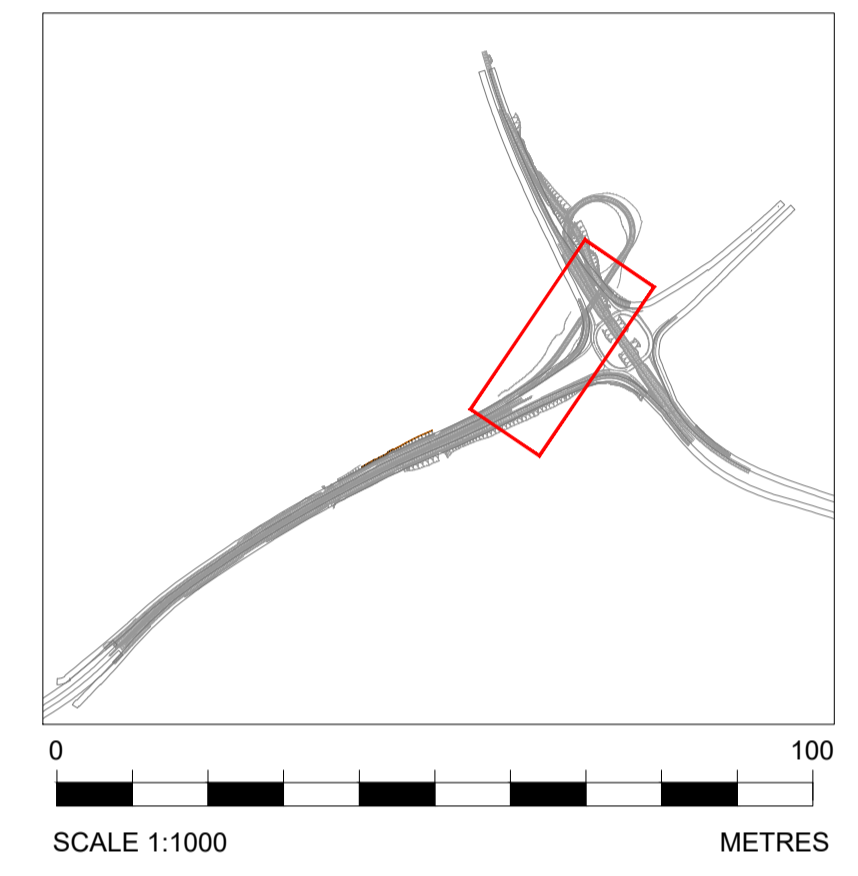
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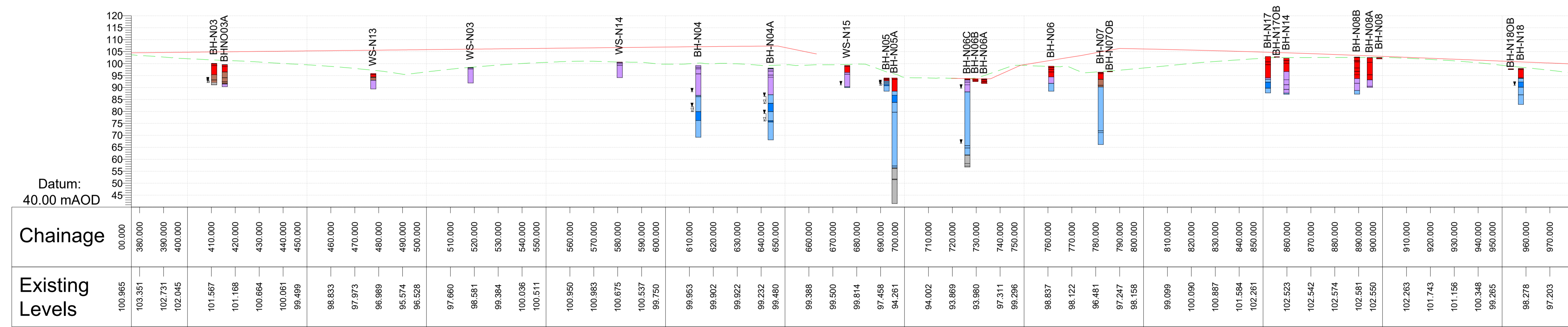


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Drawing title: **GEOLOGICAL LONG SECTION AND PLAN SHEET 4 OF 10**

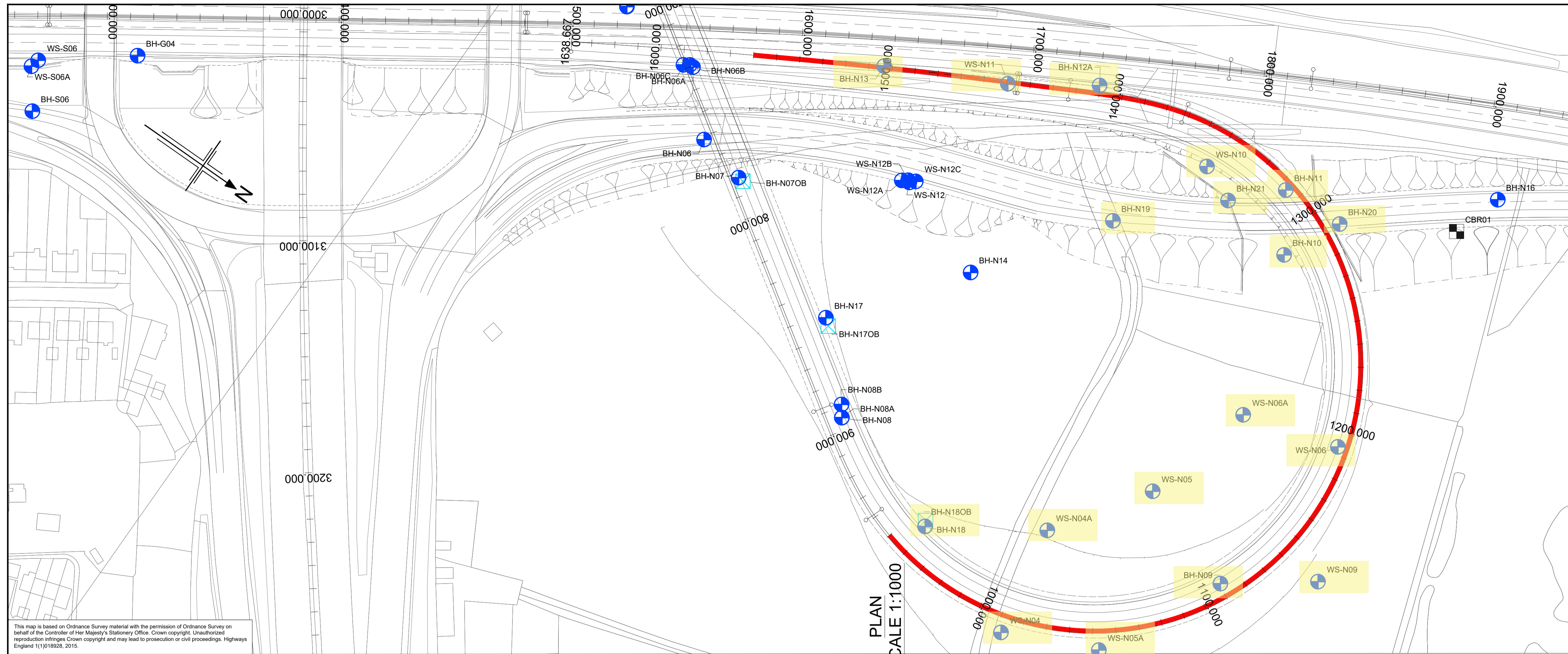
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State Code	Preliminary	Sheet Size	N/A
Project Stage	PCF STAGE 3	Scale	DO NOT SCALE
Scale	AS SHOWN@N/A	Rev	P02
Jacobs No.	B36601F0	Client no.	HE548642

Drawing number: **HE548642 - JAC - HGT - SII_MLT - DR - GI - 1104**

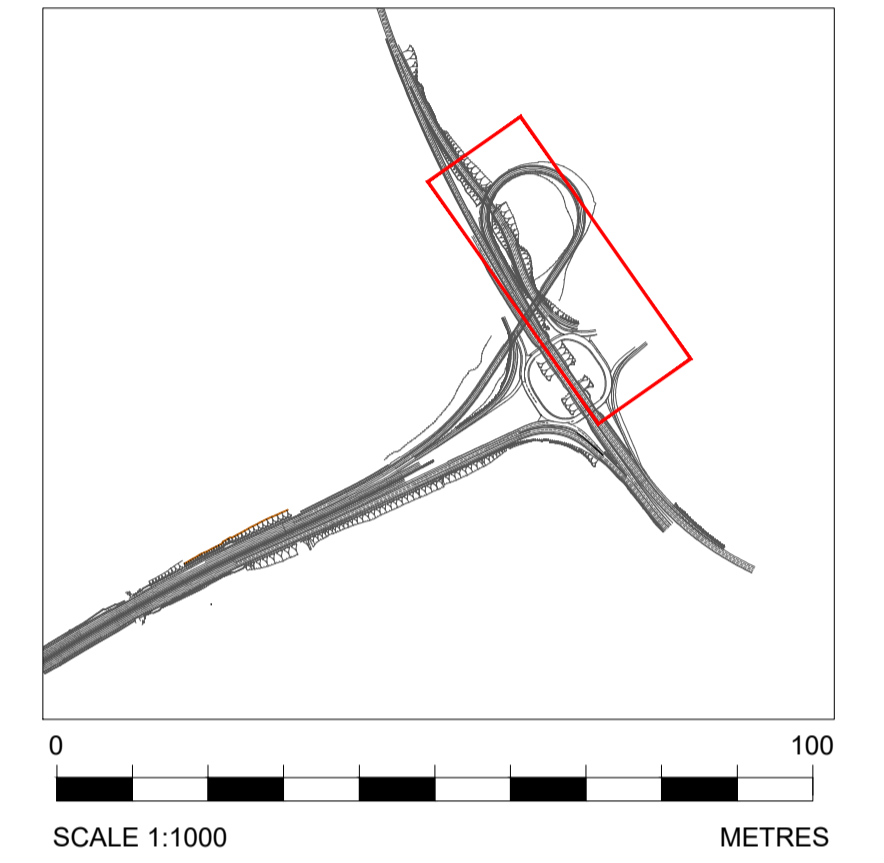
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C:\working\jacobs_uk_highways_ssa\legint_novet\027030\HE548642-JAC-HGT-SII_MLT-DR-GI-1104.dwg - 14/11/2023 14:54:56 - Sheet 1 - novet1



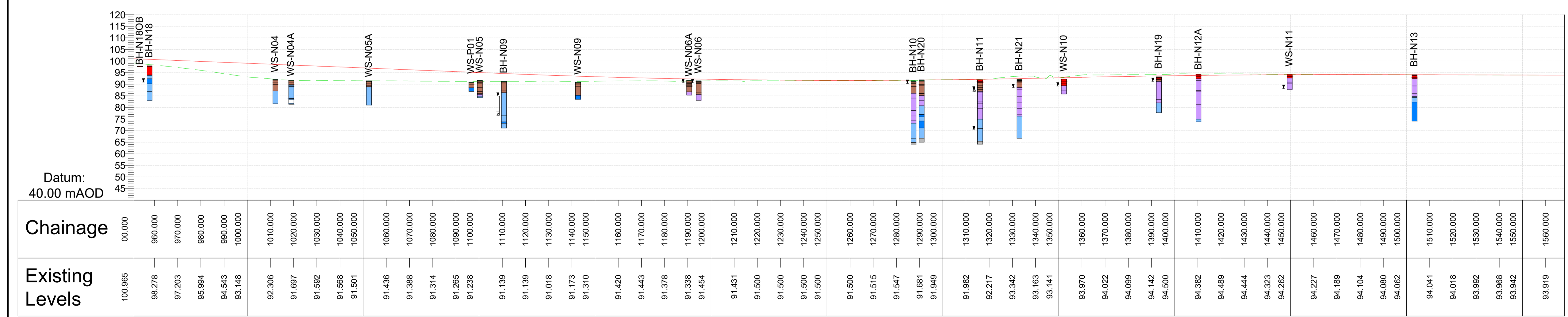
NOTES:

- REFER TO DRAWING HE548642-JAC-HGT-SII_MLT-DR-GI-1101 FOR DRAWING NOTES AND LEGEND.



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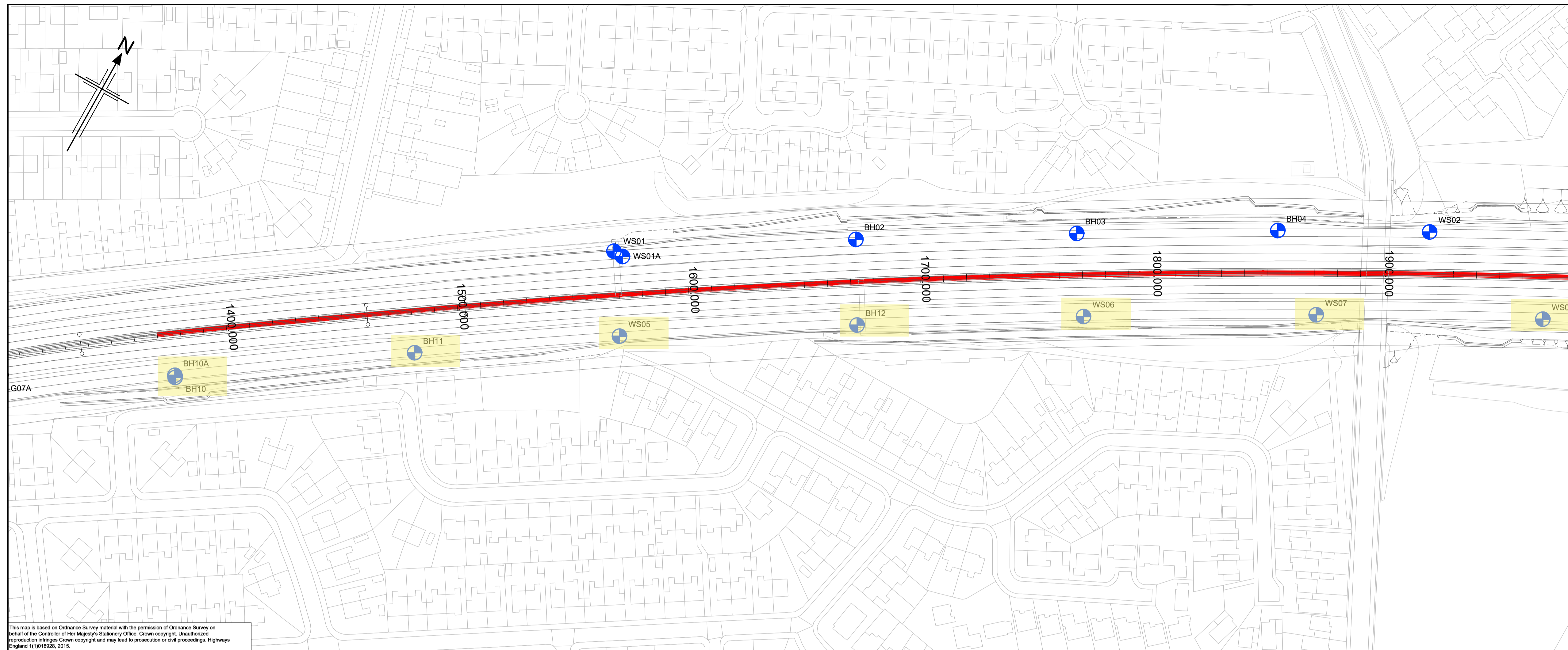


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1060.000	91.436
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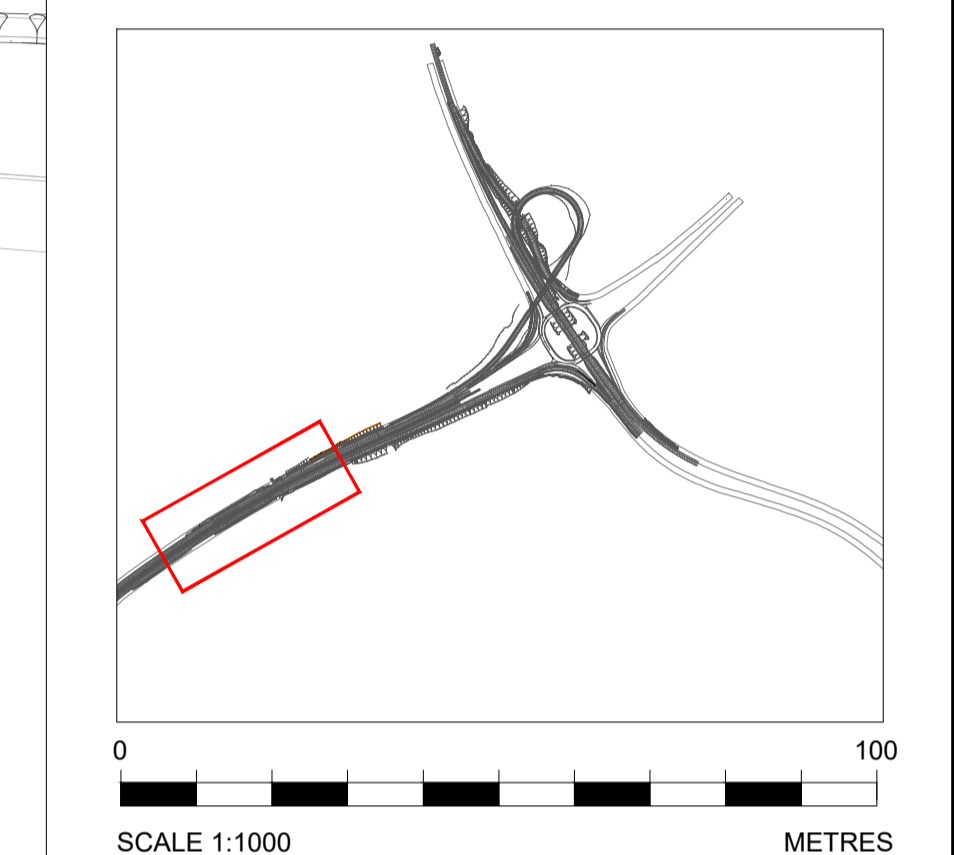
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P01	28/07/23	FOR REVIEW	NL	AC	SC	AP
P02	14/11/23	FOR APPROVAL	NL	AC	SC	AP
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
Contractor:						
Client:		 1 City Walk, Leeds, LS11 9DX Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389 www.jacobs.com				
Project:		 REGIONAL DELIVERY PARTNERSHIP M60/M62/M66 SIMISTER ISLAND INTERCHANGE				
Drawing title:		GEOLOGICAL LONG SECTION AND PLAN SHEET 5 OF 10				
Drawing status: S4 - SUITABLE FOR STAGED APPROVAL						
State Code	Preliminary		Sheet Size			
Project Stage	PCF STAGE 3		N/A			
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Jacobs No.	B36601F0		Rev		P02	
Client no.	HE548642					
Drawing number	Originator	Volume	Type Role Number			
HE548642 -	JAC	- HGT -	SII_MLT -DR- GI -1105			

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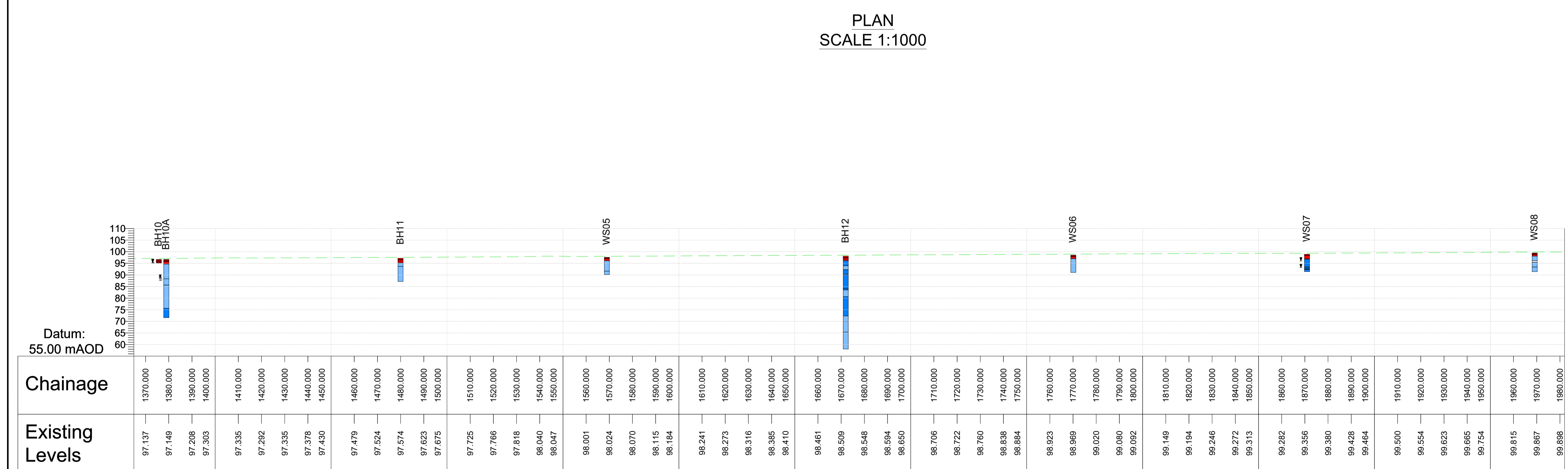


NOTES:
 1. REFER TO DRAWING HE548642-JAC-HGT-SII_MLT-DR-GI-1101 FOR DRAWING NOTES AND LEGEND.



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SECTION
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P01	28/07/23	FOR REVIEW	NL	AC	SC	AP
P02	14/11/23	FOR APPROVAL	NL	AC	SC	AP
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Contractor: **COSTAIN** Designer: **JACOBS**
 1 City Walk, Leeds, LS11 9DX
 Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389
 www.jacobs.com

Client: **national highways**

Project: REGIONAL DELIVERY PARTNERSHIP
 M60/M62/M66 SIMISTER ISLAND INTERCHANGE

Drawing title: **GEOLOGICAL LONG SECTION AND PLAN SHEET 6 OF 10**

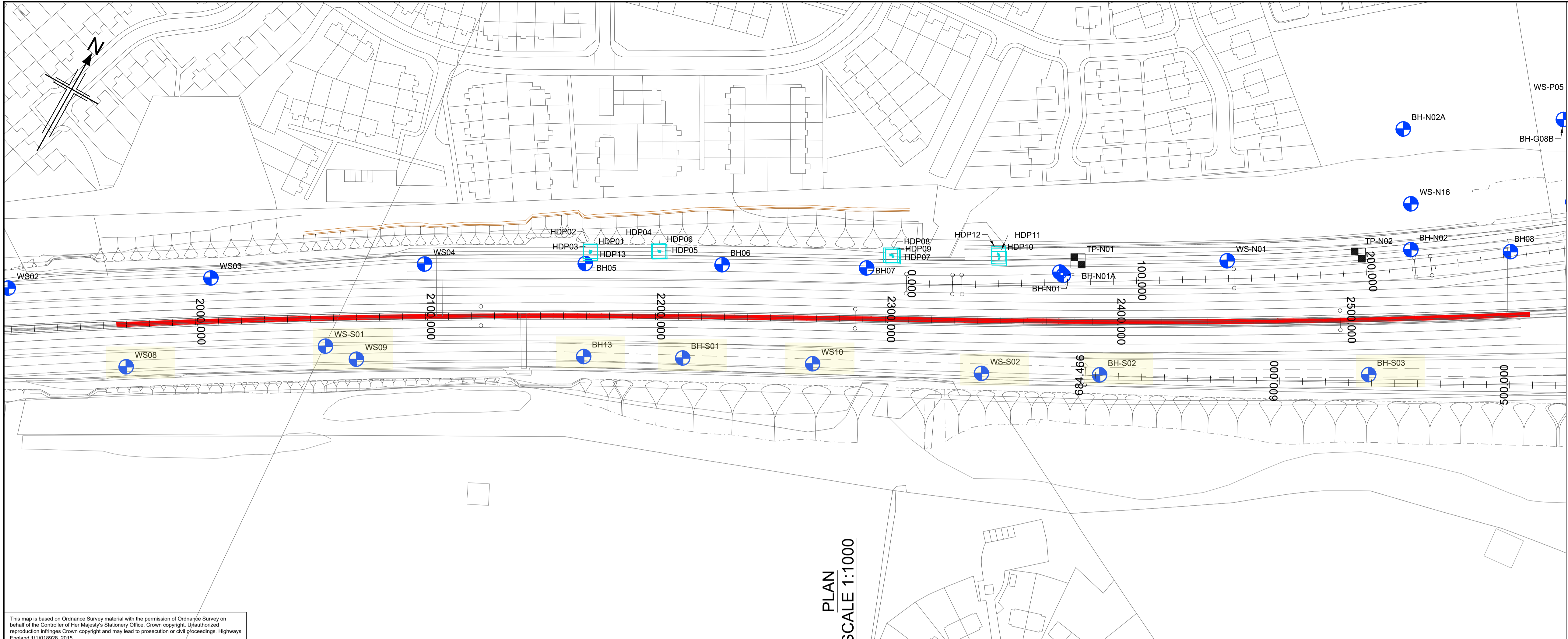
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Jacobs No.	B36601F0	Client no.	HE548642

Drawing number: **HE548642 - JAC - HGT - SII_MLT - DR - GI - 1106**
 Originator: **JAC** Volume: **- HGT -**
 Location: **SII_MLT** Type: **DR** Role: **GI** Number: **1106**

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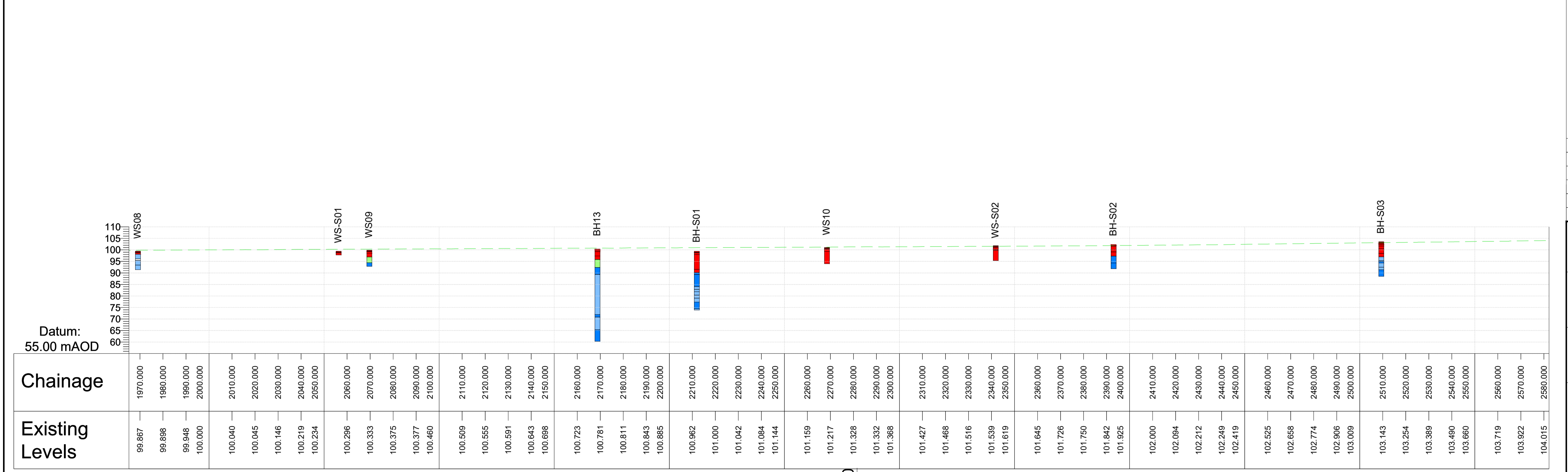
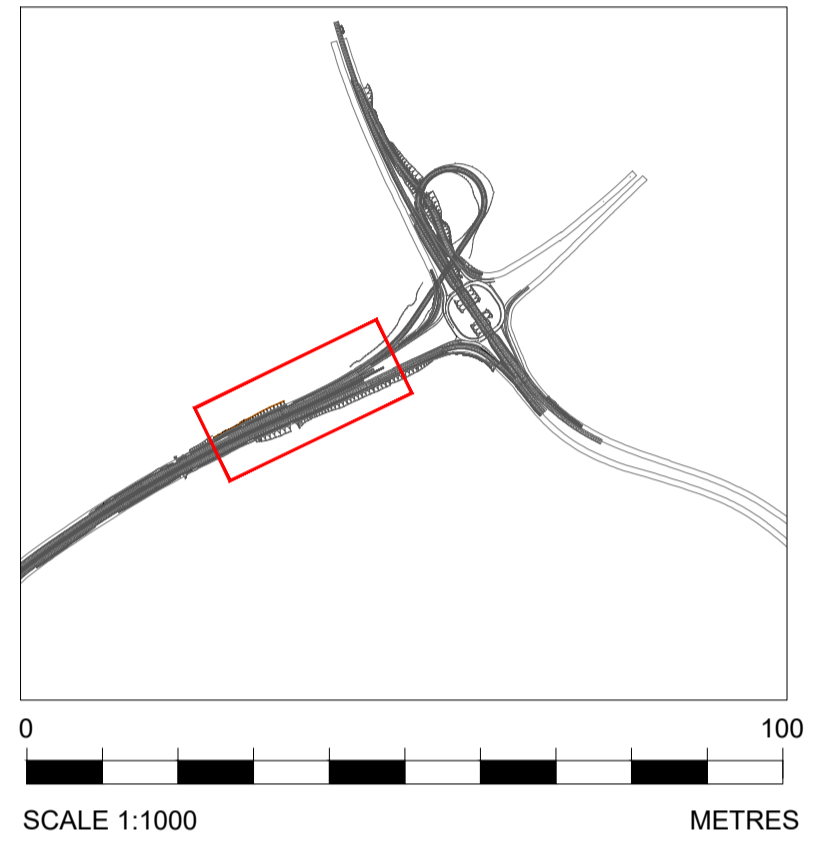
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NOTES:
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P02	14/11/23	FOR APPROVAL	NL	AC	SC	AP
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Contractor: **COSTAIN** Designer: **JACOBS**
 1 City Walk, Leeds, LS11 9DX
 Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389
 www.jacobs.com

Client: **NATIONAL HIGHWAYS**

Project: **REGIONAL DELIVERY PARTNERSHIP
M60/M62/M66 SIMISTER ISLAND INTERCHANGE**

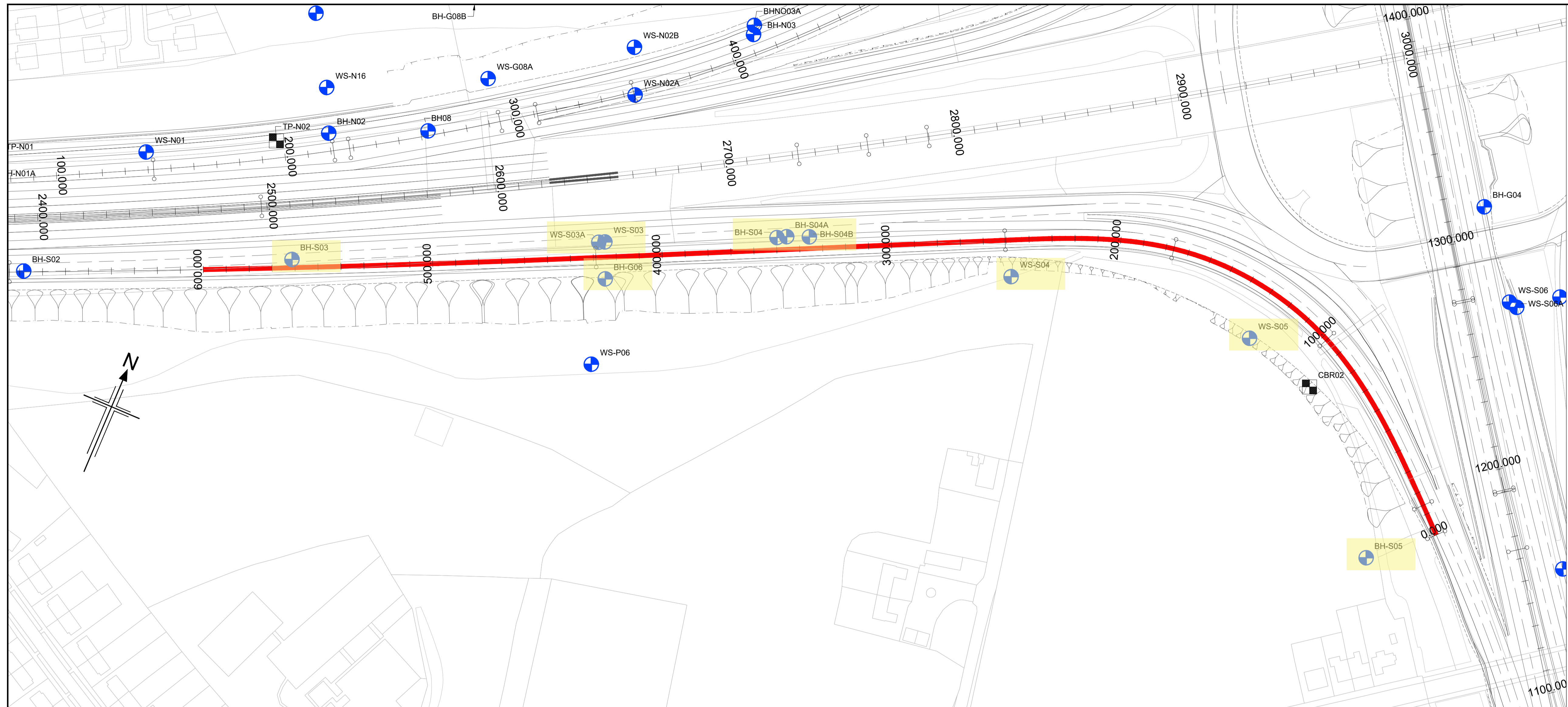
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**GEOLOGICAL LONG SECTION
AND PLAN
SHEET 7 OF 10**

Drawing status: **S4 - SUITABLE FOR STAGED APPROVAL**

State Code	Preliminary	Sheet Size	N/A
Project Stage	PCF STAGE 3	Scale	DO NOT SCALE
Jacobs No.	B36601F0	Rev	P02
Client no.	HE548642		

Drawing number: **HE548642 - JAC - HGT - SII_MLT - DR - GI - 1107**
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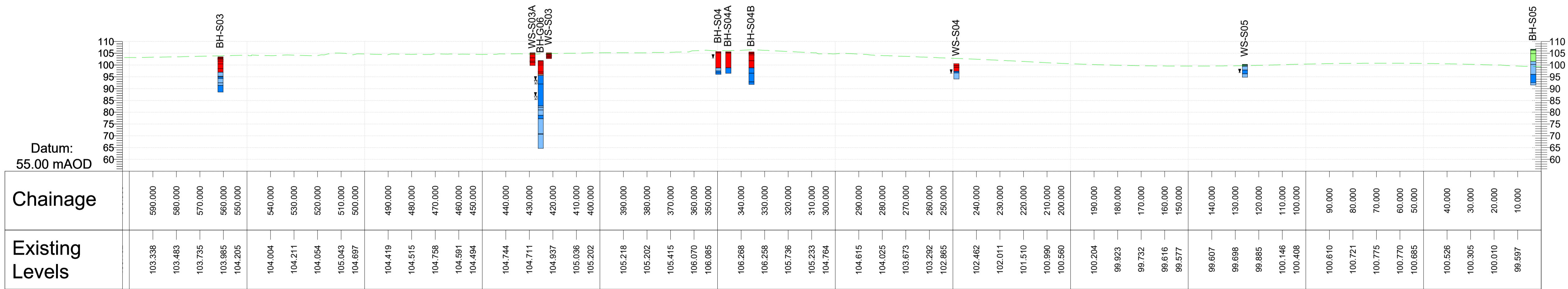
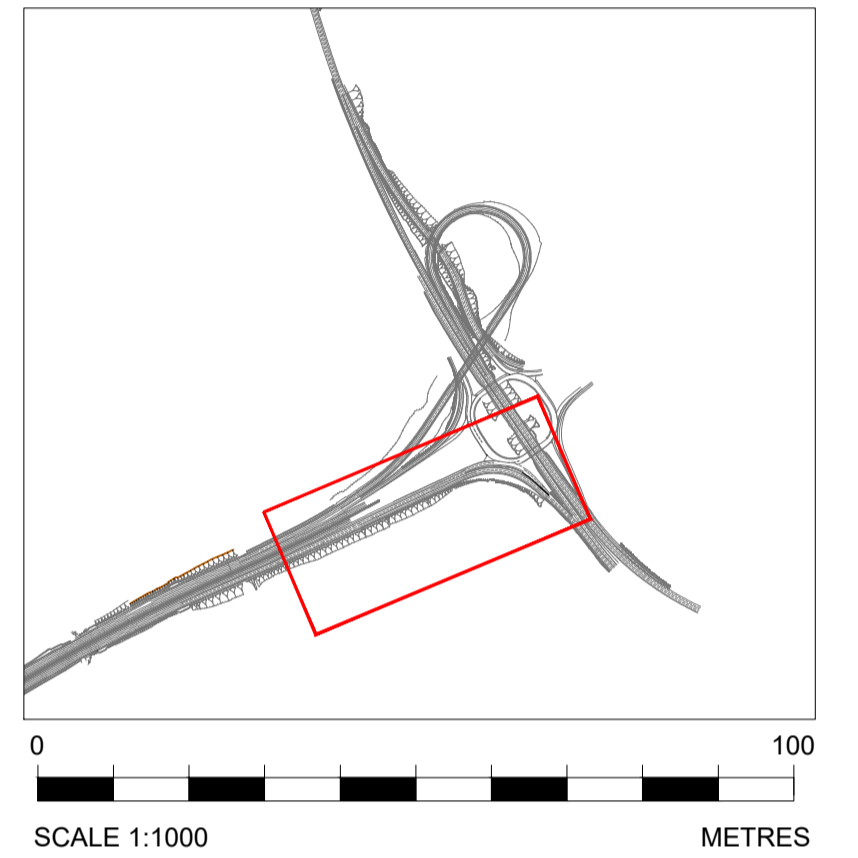
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NOTES:

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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
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Contractor: **COSTAIN** Designer: **JACOBS**
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 Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389
 www.jacobs.com

Client: **national highways**

Project: **REGIONAL DELIVERY PARTNERSHIP
M60/M62/M66 SIMISTER ISLAND INTERCHANGE**

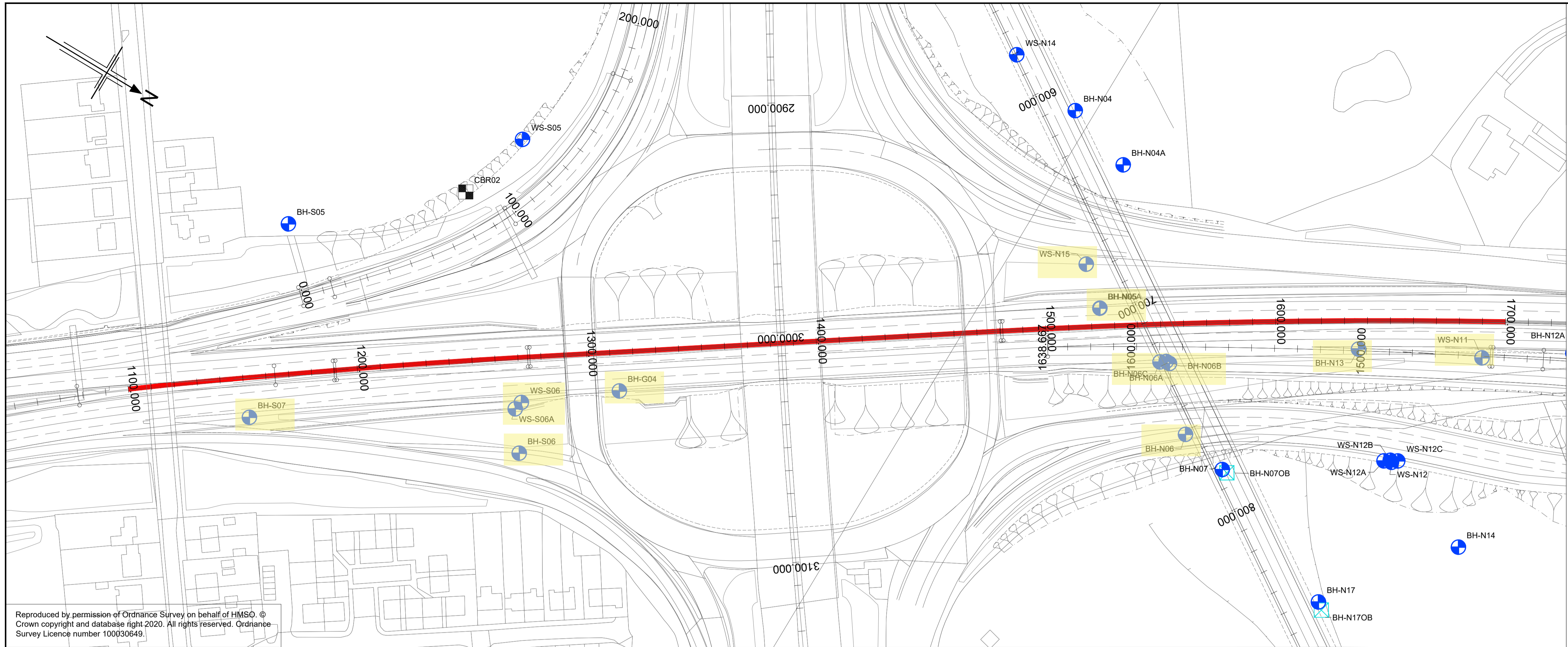
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AND PLAN
SHEET 8 OF 10**

Drawing status: **S4 - SUITABLE FOR STAGED APPROVAL**

State Code	Preliminary	Sheet Size	N/A
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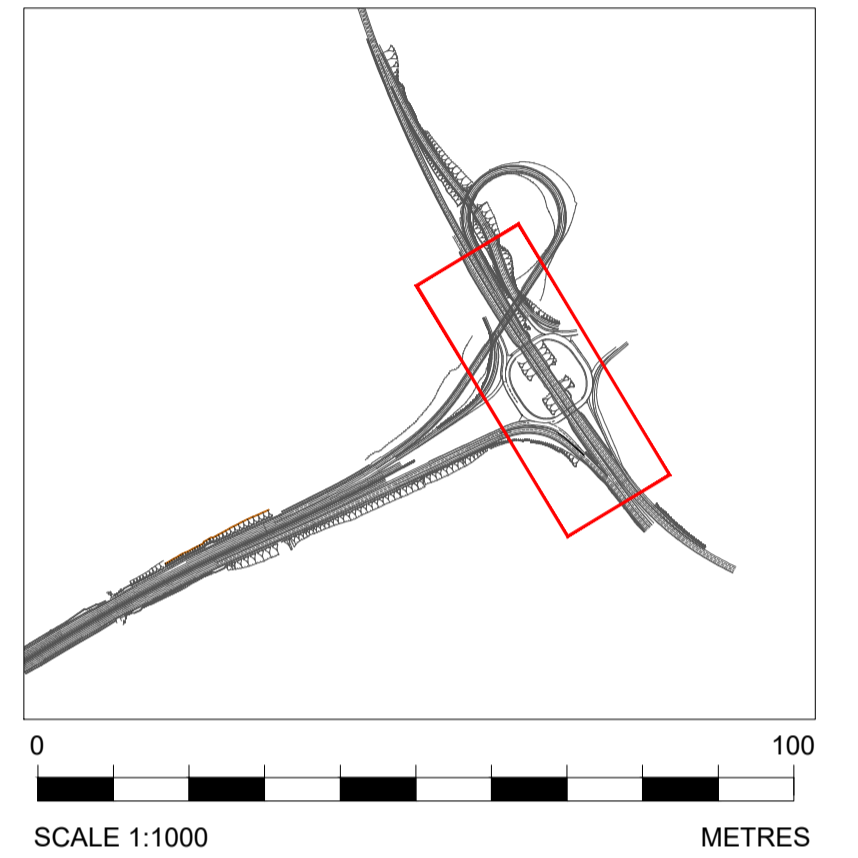
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 Location: **SII_MLT** Type: **-DR- GI -1108**

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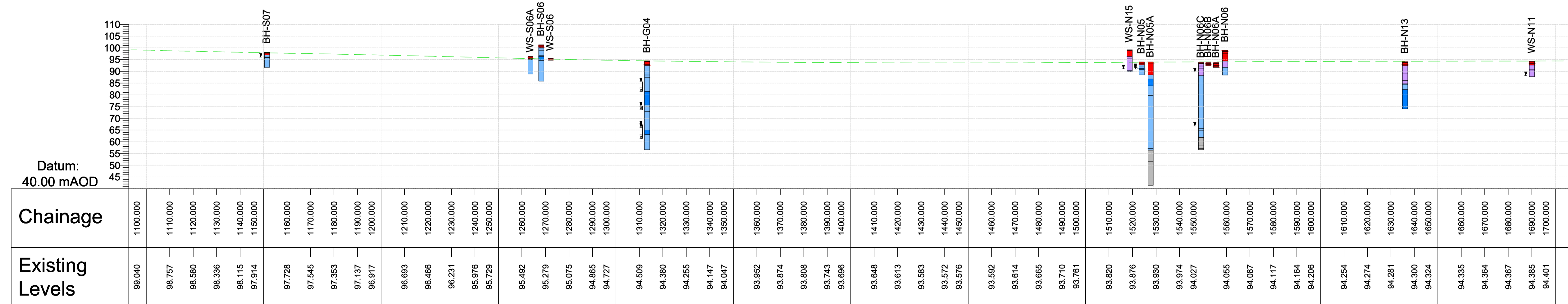
NOTES:

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SECTION
SCALE 1:1000

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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Contractor: **COSTAIN** Designer: **JACOBS**
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Client: **national highways**

Project: **REGIONAL DELIVERY PARTNERSHIP**
M60/M62/M66 SIMISTER ISLAND INTERCHANGE

Drawing title: **GEOLOGICAL LONG SECTION AND PLAN**
SHEET 9 OF 10

Drawing status: **S4 - SUITABLE FOR STAGED APPROVAL**

State Code	Preliminary	Sheet Size	N/A
Project Stage	PCF STAGE 3	Scale	DO NOT SCALE
Scale	AS SHOWN@N/A	Rev	P02
Jacobs No.	B36601F0	Client no.	HE548642

Drawing number: **HE548642 - JAC - HGT - SII_MLT - DR - GI - 1109**

Originator: **JAC** Volume: **-DR- GI - 1109**

Location: **SII_MLT** Type: **DR** Role: **GI** Number: **1109**

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Annex B. Regulatory Consultation

Bradley, Anton

From: Jones, Rebecca [REDACTED] on behalf of envsection
<envsection@bury.gov.uk>
Sent: 25 August 2021 17:46
To: Bradley, Anton
Subject: [EXTERNAL] ES853 Environmental search request - Landfill Site 1: Land to the south of Whitehouse Farm, Farm Lane, Simister and Landfill Site 2: Land to the west of M60/M66 motorway, Bridle Road, Simister
Attachments: ES853.250821.1.pdf
Follow Up Flag: Follow up
Flag Status: Completed

Anton,

Please find attached a copy of the environmental search for the above sites.

Regards,

Rebecca.

Rebecca Jones
Environmental Protection Officer
Department of Operations
Bury Council
3 Knowsley Place
Duke Street
Bury
BL9 0EJ
Telephone: [REDACTED]
Fax [REDACTED]
Email: [REDACTED]

Please note I will be working from home for the foreseeable future.

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Please visit www.bury.gov.uk/privacy to read our recently updated Privacy Policy which explains how Bury Council uses and shares your personal data to give you the best possible experience across our services.

REMAIN CAUTIOUS

BE CONSIDERATE

STAY SAFE

Covid-19 is still with us.
Let's stop the spread.

LET'S DO IT
FOR EACH OTHER
LET'S DO IT FOR BURY

NHS
Bury
Clinical Commissioning Group

Bury
COUNCIL

From: Environmental Health <envsection@bury.gov.uk>
Sent: 23 August 2021 09:21
To: envsection <envsection@bury.gov.uk>
Subject: New environmental search request

Back office notification

Request for environmental search

Date: **2021-08-23**
CRM ref: **EH358014285**
FLARE ref:

Info required: **Contamination issues at or adjacent to the site, Landfill sites within 250 metres, Environmental permits within 250 metres**

Site address: **Please undertake joint-information search for the following landfill sites:**

- **Landfill site 1: Land to the south of Whitehouse Farm, Farm Lane, Simister, Bury, M25 2RX (post code obtained from Bing maps), Grid Reference: SD 83249 95618.**
- **Landfill site 2: Land to the west of M60/M66 motorway, Bridle Road, Simister, Bury, M25 2RS (post code obtained from Bing maps), Grid Reference: SD 83224 05379.**

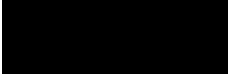
Amount:£ **40.00**
Receipt: **SZHCP00000485**

Contact details

Name: **Anton Bradley**
Address: **5 First Street Manchester M15 4GU**
Company name: **Jacobs**
Phone: [REDACTED]
Email: [REDACTED]

Geoff Little OBE
Chief Executive



Our Ref ES853.250821.1
Your Ref SZHCP00000485
Date 25 August 2021
Please ask for Rebecca Jones
Direct Line 
Direct Fax
E-mail

Donna Ball
Executive Director, Operations

Anton Bradley
Jacobs
5 First Street
Manchester
M15 4GU

Dear Anton

ENVIRONMENTAL SEARCH REQUEST

Landfill Site 1: Land to the south of Whitehouse Farm, Farm Lane, Simister, Bury; and Landfill Site 2: Land to the west of M60/M66 motorway, Bridle Road, Simister, Bury

Further to your recent enquiry regarding the above sites, the Environment Section holds the following information:

Landfill Site 1 is approximately 4.0 hectares in area and is located at National Grid Reference 383215 405677.

Landfill Site 2 is approximately 3.5 hectares in area and is located at National Grid Reference 383217 405396.

The current OS plan is attached showing their locations.

Please be careful to check the approximate scales on each plan enclosed as some will vary dependant on the search parameters.

Contamination issues at or immediately adjacent to the site

Landfill Site 1 - Based on the available historical mapping the site has been occupied by farmland with ponds and a footpath crossing the site since prior 1848. The adjacent Whitehouse Farm was constructed between 1893 and 1910 and is still present. The historical maps and aerial photographs do not suggest any previous contaminating uses at the site. However, the site is listed as a registered landfill site known as Land to South of Whitehouse Farm, Simister Landfill (see section below) and records suggest that soil, sand and clay materials were tipped.

Landfill Site 2 - Based on the available historical mapping the site has been occupied by farmland with footpaths and a small stream/land drain since prior 1848. An electricity pylon was constructed on the site between 1956 and 1971 and is still present. The historical maps and aerial photographs do not suggest any previous

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www.bury.gov.uk

contaminating uses at the site. However, the site is listed as a registered landfill site known as M66 - Costain Simister Landfill (see section below) and records suggest that inert waste was tipped.

This Section does not hold any information relating to the ground conditions at the sites. It is not known what, if any, ground contamination exists at the sites.

If the sites were to be redeveloped, it is likely that as a minimum a preliminary risk assessment and characterisation of ground conditions including sampling of the soils would be required along with a watching brief during ground works under the planning regime.

Landfill Sites within 250 metres

We are aware of three registered landfills within 250m of both sites and a location plan is enclosed (summarised below):

Landfill Name: Land to South of Whitehouse Farm, Simister (Landfill Site 1)
File reference: C096 Grid Ref.: 383213 405673

Motorway arisings tipped to regrade and improve agricultural land. The site has been filled with soil, clay and sand. The Licence holder is COSTAIN ENGINEERING AND CONSTRUCTION LTD, Licence No. RD/LIC/1046/93 first issued 1994. Tipping occurred between 1993 and 1994.

OPINION - Given the low gas generating potential of the fill material (soil, sand and clay) and the time that has elapsed since the site was tipped (almost 30 years), the likelihood that any ground gas present on the site could migrate and impacted by nearby properties is considered low.

Landfill Name: M66-Costain, Simister (Landfill Site 2)
File reference: C099 Grid Ref.: 383216 405395

The site was infilled to regrade and improve agricultural land. Landfill filled with inert waste. Licence holder is COSTAIN ENGINEERING AND CONSTRUCTION LTD Licence No. RD/LIC/1064/94 first issued in 1994. Filling began in 1994.

OPINION - Given the nature of the fill material (inert waste) and time that has elapsed since the site was filled (almost 30 years), it is considered the gas generating potential of the remaining waste would be insufficient to cause migration and ingress of any ground gas present into nearby properties. Consequently, the risk presented to nearby properties by the landfill site from landfill gas is considered low.

Landfill Name: Egypt Lane, Simister, Bury
File reference: No Reference Grid Ref.: 383523 406059

The site was filled to improve ground conditions and is owned by T J Murphy, 115 Radcliffe New Road, Whitefield. The site was filled with inert material and there was 3 years of tipping, the licence was surrendered in 1999.

Given the nature of the fill material (inert waste), it is considered the gas generating potential of the remaining waste would be insufficient to cause migration and ingress of any ground gas present into nearby properties. Consequently, the risk presented to nearby properties by the landfill site from landfill gas is considered low.

Please note that the boundaries indicated on the enclosed plan are approximate only and may not reflect the actual extent of fill.

Local areas of landfilling at or within influencing distance of the site may have been carried out for which we hold no records. Please consult historical maps and other sources of information to identify potential areas of filling.

Further information on landfills may be available from the Environment Agency by telephoning 03708 506 506, emailing enquiries@environment-agency.gov.uk or visiting their Website: <https://www.gov.uk/government/organisations/environment-agency> and completing any on-line enquiry form. Note that the Environment Agency may make a reasonable charge for supplying this information.

Environmental Permits within 250m of the site

We are not aware of any sites with Integrated Pollution Prevention Control (IPPC) Part A1, Local Authority Integrated Pollution Prevention and Control (LAIPPC) Part A2 or Local Authority Pollution Prevention and Control (LAPPC) Part B Permits within 250m of the sites.

Environmental Information Regulations 2004

The Environmental Information Regulations enable individuals and organisations to request environmental information held by public bodies. In the majority of cases, we will endeavour to respond to your request within 20 working days, extended to a maximum of 40 working days should the request be complex or voluminous. Public Bodies are allowed to make a reasonable charge for supplying the information requested, and we will contact you if a charge is applicable.

You are welcome to have access to any public registers or to examine the information free of charge. If you wish to do so, please contact the Council to arrange viewing.

If you are dissatisfied with your response, you have the right to complain to the Local Authority, who will conduct an internal review to try and resolve any issues or problems. Please complete a 'Report a Problem' complaint form available from our website: www.bury.gov.uk or by contacting customer services on 0161 253 5353. Should you still not be satisfied with your response, you may then appeal to the Information Commissioner. Details can be found on the following website: www.informationcommissioner.gov.uk or by contacting 01625 545 700.

Payment Receipt

I acknowledge your payment of £40.00. Should you require any further information please contact me on the number given above.

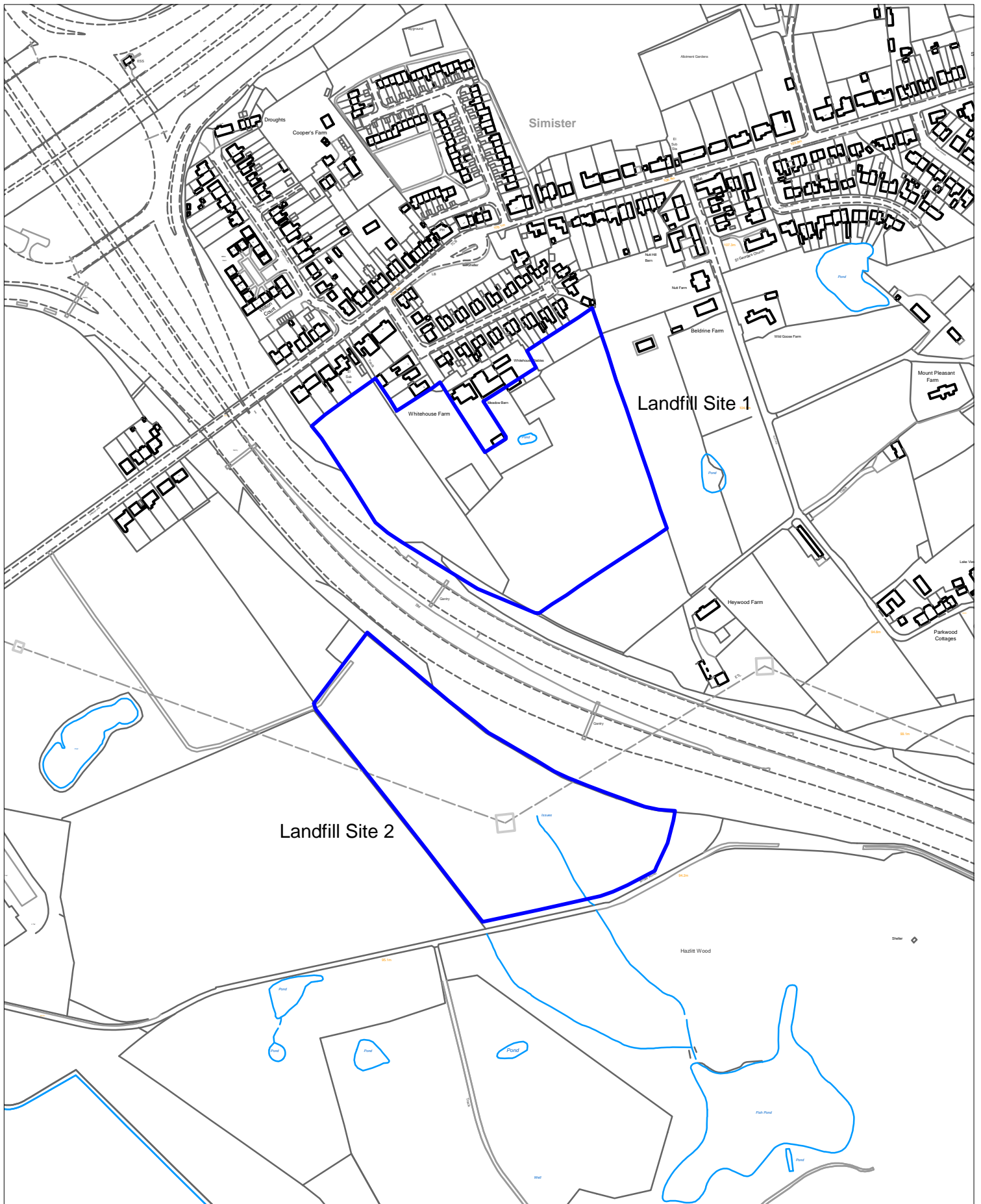
Should you require any further information please contact me on the number given above.


Yours sincerely



Rebecca Jones
Environmental Protection Officer

The above details are based upon records currently held by the Environment Section and are believed to be accurate at the time of printing. However, this Division can accept no responsibility for their accuracy or completeness.



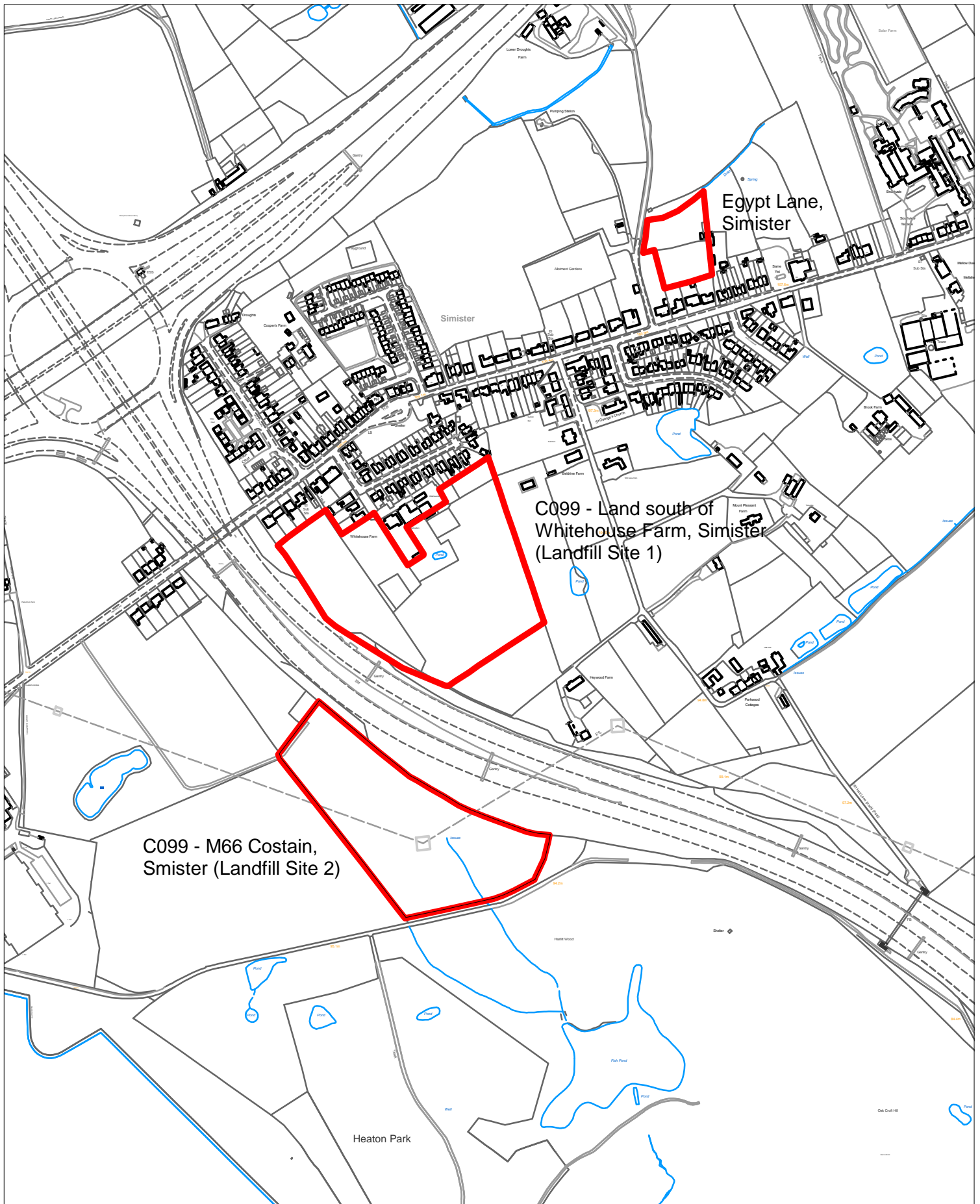
KEY:
 Site Boundary

TITLE: Land at Farm Lane and Bridle Road,
 Simister, Bury
 Current OS Map



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NGR: 383215 405677 & 383217 405396
 SCALE: 1:3000 @ A4 Date: August 2021



KEY:
 Site Boundary
 Landfill Site

TITLE: Land at Farm Lane and Bridle Road, Simister, Bury
 Landfill Sites



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 Ordnance Survey 100023063.

NGR: 383215 405677 & 383217 405396
 SCALE: 1:3000 @ A4 Date: August 2021

Bradley, Anton

From: Jones, Rebecca [REDACTED]
Sent: 13 September 2021 12:37
To: Bradley, Anton
Subject: [EXTERNAL] RE: GMMC230550AB Response from the Environment Agency: Historic landfill sites near the M60

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Anton,

The two landfill sites mentioned by the EA are C096 and C099 listed in my response. I have had a look at our records and found copies of the Greater Manchester Waste Disposal Applications for these two sites.

Copies of these documents will follow this email.

With regard to permissions required for site investigations, as far as I'm aware Bury Council does not own either site and therefore, no permission would be required from the Council.

Regards,

Rebecca.

Rebecca Jones
Environmental Protection Officer
Department of Operations
Bury Council
3 Knowsley Place
Duke Street
Bury
BL9 0EJ
Telephone: [REDACTED]
Fax: [REDACTED]
Email: [REDACTED]

Please note I will be working from home for the foreseeable future.

Privacy Policy

Please visit www.bury.gov.uk/privacy to read our recently updated Privacy Policy which explains how Bury Council uses and shares your personal data to give you the best possible experience across our services.



From: Bradley, Anton [REDACTED]
Sent: 10 September 2021 15:37
To: Jones, Rebecca [REDACTED]
Cc: Thompson, Jill [REDACTED]
Subject: FW: GMMC230550AB Response from the Environment Agency: Historic landfill sites near the M60

Hi Rebecca,

Please see email response from the EA regarding the historic landfill sites adjacent to the M60.

Please could you confirm if Bury Council holds any paper bound Greater Manchester Waste Disposal Authority (GMWDA) data relating to the two historical landfill sites, referred to in the below email and the attachments?

If so, would I be able to make an appointment to view the GMWDA data?

Furthermore, are you able to advise on what permissions, if any, would be required from Bury Council to undertake a ground investigation on these historic landfills?

Our client is looking to construct an attenuation pond, for flood alluviation purposes, on one of the landfills.

Kind regards,

Anton

Anton Bradley, MEnvSci, CSci | Water & Environment | Land Quality Senior

[REDACTED]
5 First Street, Manchester, M15 4GU | UK

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From: GMMC Info Requests <InfoRequests.GMMC@environment-agency.gov.uk>
Sent: 10 September 2021 14:14
To: Bradley, Anto [REDACTED]
Subject: [EXTERNAL] GMMC230550AB Response from the Environment Agency

Dear Anton

Thank you for your enquiry which was received on 16 September 2021.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

Please see data attached and our officers comments below:

- Landfill site 1: Land to the south of Whitehouse Farm, Farm Lane, Simister, Bury, M25 2RX (postcode obtained from Bing maps), Grid Reference: SD 83249 95618.
- Landfill site 2: Land to the west of M60/M66 motorway, Bridle Road, Simister, Bury, M25 2RS (postcode obtained from Bing maps), Grid Reference: SD 83224 05379.

We don't hold any information on these sites and they are not designated Special Sites. We recommend that you pass on the following comments to the enquirer.

The Environment Agency's records do not indicate that either site is designated a Special Site, and there is accordingly no entry relating to it on the register maintained by the Environment Agency under section 78R of the Environmental Protection Act 1990. For further information relating to land contamination, we recommend that you contact the relevant local authority.

Local Authorities are the lead regulators for contaminated land concerning Human Health and hold historical records/reports on potential sources of land contamination and within their boroughs. We recommend that the enquirer contacts Bury Council Contaminated Land/Environmental Health Team to see if they hold any relevant information about the current use and potential sources of contamination on the site and adjacent land.

Attached is the limited information we have for these historic landfill sites, which predate the Environment Agency and was inherited from the former regulator, Greater Manchester Waste Disposal Authority.

The customer has a lot of the data and in fact has more information regarding the licence holder. However there is a bit more information regarding the type of waste tipped. It would appear that these were temporary landfill for construction waste generated by the building of the M60.

The customer should be advised to contact Bury Council as well.'

Please refer to the [Open Government Licence](#) which explains the permitted use of this information.

Please get in touch if you have any further queries or contact us within two months if you'd like us to review the information we have sent.

Kind regards,

Claire Cooke
Customer and Engagement Officer
Greater Manchester, Merseyside and Cheshire

External: [REDACTED]



From: Bradley, Anton [REDACTED]
Sent: 20 August 2021 10:59
To: Enquiries, Uni [REDACTED]

Cc: Thompson, Jill [redacted]; sarah.coverdale [redacted]; caroline.frost [redacted]
[redacted] dan.lean [redacted]

Subject: 210823/CMC05 - Environmental information request: Historic landfill sites adjacent to M60, Simister

Dear Environment Agency,

Please find attached site location plan and landfill site information images.

I am undertaking a series of ground investigations at the M60/M66/M62 Simister Island Interchange, and wish to obtain any available planning, construction, operation, monitoring, and site closure information relating to two historic landfill sites located at the following site addresses:

- Landfill site 1: Land to the south of Whitehouse Farm, Farm Lane, Simister, Bury, M25 2RX (post code obtained from Bing maps), Grid Reference: SD 83249 95618.
- Landfill site 2: Land to the west of M60/M66 motorway, Bridle Road, Simister, Bury, M25 2RS (post code obtained from Bing maps), Grid Reference: SD 83224 05379.

Please could the Environment Agency undertake a search of their records to identify any pertinent information relating to the two landfill sites mentioned above?

Please could the Environment Agency confirm the relevant department has received this information search request? I understand that information searches may take up to 21 working days to process.

If you have any queries, please do not hesitate to contact me.

Kind regards,

Anton

Anton Bradley, MEnvSci, CSci | Water & Environment | Land Quality Senior

[redacted]
5 First Street, Manchester, M15 4GU | UK

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GREATER MANCHESTER WASTE REGULATION AUTHORITY

Acting Chief Waste Regulation Officer: R.D. Clapton

5th Floor
Blackfriars House
Manchest
M3 2JA

RA

Telephone: Switchboard 061-833-2776 - Carrier Registration (24 Hour) 061-834-6655 Fax Number: 061-833-2917

Bury MBC
Housing & Environmental Services
Maple House
8 Haymarket Street
Bury
BL9 0AF

Your ref:
Our ref: CD/AG
Ask for: Charlotte Danvers
Date: 24 December 1993

Dear Sir

Control of Pollution Act 1974 Waste Management Licence Application RD/LIC/1046/93

Enclose copies of the application for the following site licence in accordance with Section 5(4) of the Control of Pollution Act 1974. My proposed conditions for the licence will be as given in Profile Licence PFLF1/REV1 subject to the listed insertions and amendments in the enclosed Profile Licence Amendments Form.

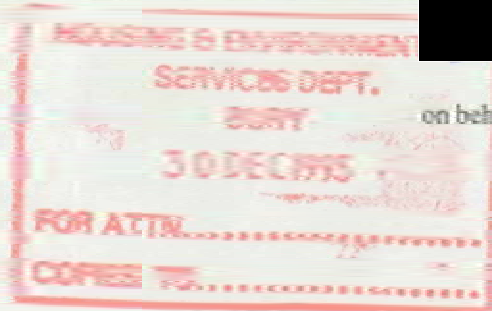
I have previously sent you a copy of the relevant Profile Licence, PFLF1/REV1, so that you may readily compare the site-specific amendments to those conditions given in the enclosed PLAF. In order that I may process this licence application without undue delay, I should be grateful if you could submit your comments within twenty-one days from the receipt of this letter. Otherwise, in fairness to the applicant, I will have to proceed with the processing of this application, on the assumption that you have no comments to make.

Licence Number: RD/LIC/1046/93
Applicant: Costain Construction and Engineering Services Ltd
Facility: Inert Landfill
Location: Land South of Whitehouse Farm, Sinister Lane, Bury.

Yours faithfully

[Redacted Signature]

on behalf of the Chief Officer



Enc

*informally phone
11.1.93 that we had
no comments*

[Redacted]

PROFILE LICENCE AMENDMENT FORM

WASTE DISPOSAL SITE LICENCE APPLICATION NUMBER: RD/LIC/1046/93

APPLICANT NAME: COSTAIN CONSTRUCTION & ENGINEERING LIMITED

SITE LOCATION: LAND SOUTH OF WHITEHOUSE FARM, FARM LANE, SIMISTER, BURY

PROFILE LICENCE TYPE: PFILF1 REV1: INERT LANDFILL SITE - MAJOR

CONDITIONS	INSERTIONS
TITLE	RD/LIC/1046/93 Costain Construction & Engineering Ltd, Costain House, Kelvin Avenue, Middleton, Manchester, M24 4RA, for the site at the land south of Whitehouse Farm, Farm Lane, Simister, Bury.
FOOTER	RD/LIC/1046/93
A1 A4(a) A4(b) A7	RD/LIC/1046/93/P1 J5 6months from the date of issue of this licence. J5 12 months from the date of issue of this licence. J2 to J6
B1(c)(i) (ii)	2500 m ³ /day Group 1: 2500 m ³ /day Group 2: NOT PERMITTED Group 3: NOT PERMITTED Group 4: NOT PERMITTED Group 5: NOT PERMITTED
D2	Costain Construction & Engineering Ltd, Costain House, Kelvin Avenue, Middleton, Manchester, M24 4RA.
E4	the eastbound carriageway of the M66 between Junctions 4 and 5.
F1	Monday to Friday from 07.30 to 18.30 Saturday from 07.30 to 13.00
J5	Planning Permission Number 29132/93
ANNEX A ANNEX B ANNEX C ANNEX D ANNEX E ANNEX F	(As per attached copy)
	RD/LIC/1046/93/P1 (as per attached plan)

CONDITION	AMENDMENT	REASONS
A3(a)(ii)	Change C6 to C3.	Errors in profile.
A3(a)(iv)	Change G12 to G ⁺	
A3(b)(ii)	Change A2(b) to A3(a).	
A4(a)	Change J9 to J5.	
A4(b)	Change J9 to J5.	
A7(c)	Change J10 to J*	
C1(b)(iv)	Delete "or (iv)".	
D3(f)	Change I6 to I5.	
E9	Change "tanns" to "tanks".	
G7(ii)	Change "fron" to "front".	Weighbridge condition deleted.
C1(c)	Delete condition.	
C1(d)	Renumber to C1(c).	
C1(e)	Renumber to C1(d). Replace "weight" with "quantity".	
C2(a)	Change C1(d) to C1(c).	
C2(b)	Change C1(d) to C1(c).	
D1(a)(i)	Delete "as E8".	
D1(a)(iii)	Insert "/cubic metres".	
D1(b)(i)	Delete "as E8".	
D1(b)(iii)	Insert "/cubic metres".	
E8	Delete condition.	
E9	Renumber to E8.	
SITE SPECIFIC AMENDMENTS		
B1(d)	INSERT AS NEW CONDITION:- The total maximum quantity of waste received at the site shall not exceed 50,000m ³ .	

D1(a)(i)	SHALL NOW READ:- d shall be kept of the types and quantities of waste delivered to the facility. The form of the record shall be agreed in writing with the Waste Regulation Authority and shall include detailing of the source of the waste, the time and date of the delivery, the registration number of the vehicle, the name of the driver, a description of the waste and the quantity of waste in the load. This record shall be signed by the site operative booking the load in, in accordance with Condition C1 above, and by the driver of the vehicle delivering the waste.	All material imported by licence holder
D1(e)	DELETE	groundwater monitoring inappropriate
D1(f)(g)	RENUMBER TO (e),(f)	condition deleted
D3(e)	DELETE	groundwater monitoring inappropriate
D3(f)(g)	RENUMBER TO (e),(f) ALSO, AMEND CROSS REFERENCES	condition deleted
E3	SHALL NOW READ:- No waste shall be deposited until a fence as specified in the Working Plan has been constructed around the perimeter of the operational area of the site, and lockable gates, not less than 1.0 metre in height, have been installed at the site entrance. Site fencing and gates shall be inspected each working day, and any damage or holes repaired within one working day (24 hours) of being detected. Gates shall be locked out of working hours other than in an emergency situation, and in any case whenever the site is not manned.	height of fencing adequate
E5	DELETE	vehicles unlikely to be leaving site (see new condition 119 to cover this event)
E6	RENUMBER TO E5	condition deleted
E7	DELETE	waste arising on site
E8	RENUMBER TO E6. SHALL NOW READ:- No fuel is permitted to be stored on site	no fuel permitted
F4	SHALL NOW READ:- All temporary cessations of operations shall be notified in writing forthwith to the Waste Regulation Authority.	waste arising on site
G5	SHALL NOW READ:- The depth of a layer of waste shall not after initial compaction exceed 2.5 metres.	at request of applicant

H8	SHALL NOW READ:- All loads of waste in open containers being removed from the site shall be adequately sheeted.	all waste arising on site
H9	NEW CONDITION Wheel-washing facilities shall be provided where necessary to prevent vehicles delivering/removing materials from the site from fouling the public highway. All such facilities shall be installed with prior agreement of the Waste Regulation Authority and of the local Planning Authority.	to allow for provision of facilities should this become necessary.
I4	DELETE	groundwater monitoring inappropriate
I5	RENUMBER TO I4	condition deleted
J4	DELETE	groundwater monitoring inappropriate
J5, J6., J7	RENUMBER TO J4,J5,J6	condition deleted

Annex A: Permitted Waste Types (Conditions B1 and B2)

MAXIMUM TOTAL INPUT OF ALL PERMITTED WASTES FROM FOLLOWING GROUP 1 TO SITE IS NOT TO EXCEED:

(a) 2500m³/DAY

NOTES:

(1) MIXED WASTES:

Major components of mixed wastes from Groups 1 to 5 must be identified, and must all be permitted waste types and v permitted quantities for those waste types.

(2) CONTAMINATION:

Contamination of any material or product occurs when it is either rendered not suitable for the purpose for which it was obtained or produced, or determined to be off-specification for its original intended purpose, due to the presence of foreign chemical substances.

(3) CONTAMINANTS:

Contaminants are chemicals or substances which, by their introduction into or presence in a material or product, render material or product either off-specification or unsuitable for the purpose for which it was originally produced.

(4) CONTAMINATED SOILS AND OTHER WASTES:

Annex B lists specified contaminants against which soils and other wastes can be assessed and classified according to 'Contamination Classes'. (See also the Notes to Annex B.) The maximum levels in soils and other wastes of specified contaminants that are permitted on this site are given in the following Groups 1 to 5.

For contaminants which are detected but not specified, or which are over the maximum permitted level specified, the determination should be made whether the soil or other waste is permitted and, if permitted, what quantity is permitted, the soil or other waste should be considered in terms of the worst case contaminating chemical, and classed as that specific waste type in Group 5. The presence in significant quantities of a specifically non-permitted substance as a contaminant will render the soil or other waste type non-permitted.

Annex A Continued.....Permitted Waste Types (Conditions B1 And B2)

Group 1

Maximum total daily input of Group 1 Wastes : not exceeding 2500m³/day

Maximum total daily input of all permitted waste to entire site is 2500m³/day.

Contamination levels: The maximum permitted contamination levels for waste types in this Group of those contaminants specified in Annex B are the maximum levels for Contaminants Class A.

The waste types permitted from Group 1 and the maximum weekly input expressed as a proportion of the total weekly input of Group 1 wastes to the site are as follows:-

Group 1 Waste Types (Solids only permitted)	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of all permitted wastes to site)	Conditions/Comments
Mixed permitted waste types from Group 1 only	1.1	100% w/w	
Soil	1.2	100%w/w	
Rubble, Hardcore, Stone, Brickwork	1.3	NOT PERMITTED	Contamination levels must be within those specified for soil Class A (Annex B)
Concrete	1.4	NOT PERMITTED	
Weathered Tar/Bitumen Aggregate	1.5	NOT PERMITTED	
Slag/Ash/Clinker (except incinerator residue)	1.6	NOT PERMITTED	
Clay	1.7	100%w/w	
Sand (Except Foundry Sand or where used as filter material)	1.8	100%w/w	
Carbon, Kieselguhr (Except where used as filter material)	1.9	NOT PERMITTED	
Glass, Pottery, China, Fired Enamels, Ceramics, Mica	1.10	NOT PERMITTED	
Boiler Scale	1.11	NOT PERMITTED	
Mineral Processing Wastes	1.12	NOT PERMITTED	

Annex D: Analysis of samples of Surface Water

NOTE: All analyses of samples to be carried out by a NAMAS-accredited laboratory or recognised equivalent (see Condition I3).

DI: SURFACE WATERS

DETERMINANDS	UNITS	SITE OPERATION				SITE RESTORATION				SITE COMPLETION				
		WEEKLY	MONTHLY	3-MONTHLY	MONTHLY	3-MONTHLY	MONTHLY	6-MONTHLY	MONTHLY	3-MONTHLY	MONTHLY	6-MONTHLY		
Conductivity	uS/cm	Y			Y									
pH Value	-	Y			Y									
COD	mg/l		Y											
BOD	mg/l													
TOC	mg/l													
TON	mg/l													
Disolved oxygen	mg/l		Y											
Ammoniacal nitrogen	mg/l		Y			Y							Y	
Alkalinity (CaCO ₃)	mg/l		Y			Y							Y	
Chloride	mg/l		Y			Y							Y	
Sulphate	mg/l		Y			Y							Y	
Phosphate	mg/l		Y			Y							Y	
Sodium	mg/l					Y						Y		Y
Potassium	mg/l					Y						Y		Y
Magnesium	mg/l					Y						Y		Y
Calcium	mg/l					Y						Y		Y
Chromium	mg/l					Y						Y		Y
Manganese	mg/l					Y						Y		Y
Iron	mg/l					Y						Y		Y
Nickel	mg/l					Y						Y		Y
Copper	mg/l					Y						Y		Y
Zinc	mg/l					Y						Y		Y
Cadmium	mg/l					Y						Y		Y
Lead	mg/l					Y						Y		Y
Mercury	mg/l					Y						Y		Y
Arsenic	mg/l					Y						Y		Y
Total Cyanide	mg/l					Y						Y		Y
Monohydric phenols	mg/l					Y						Y		Y
Organochlorines (insecticides)	mg/l					Y						Y		Y

Annex E: Schedule of site records

Subject Waste Inputs	Record	Details	Parameters	Units	Submission to WRA	
					Frequency	Deadline
Waste Outputs	Records	Type of waste	Annex A		On request	On request
		Quantity of waste	Weight	Tonnes		
		Person/Company				
		Source				
		Time and date				
		Registration number				
		Reg. Carriers No.				
		Driver name				
		Types of waste	Annex A			
		Total Quantity/Type	Weight	Tonnes		
Waste Outputs	Records	Type of waste	Annex A		On request	On request
		Quantity Of Waste	Weight	Tonnes		
		Person/Company				
		Destination				
		Time and date				
		Registration number				
		Reg. Carriers No.				
		Driver name				
		Types Of Waste	Annex A			
		Total Quantity/Type	Weight	Tonnes		
Special Wastes	Consignment notes	As per "Control Of Pollution (Special Waste) Regulations 1980".			Each Consignment	Monthly
		As per "Control Of Pollution (Special Waste) Regulations 1980".				
		Soil analysis	As per Annex C: Contamination analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
Analyses of soil and other waste	Soil contaminated above soil Class A Waste contaminated above level for that group Waste in drums or tankers Wastes specified in Annex A as requiring analysis	Soil analysis	As per Annex C: Contamination analysis		Random sample from 1 in 10 loads	1/Sample
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
Special Wastes	Consignment notes	As per "Control Of Pollution (Special Waste) Regulations 1980".			Each Consignment	Monthly
		As per "Control Of Pollution (Special Waste) Regulations 1980".				
		Soil analysis	As per Annex C: Contamination analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			
		Basic analysis	As per Annex C: Basic analysis			
		Full analysis	As per Annex C: Full analysis			

Annex E: Schedule of site records

Subject	Record	Details	Parameters	Units	Frequency	Submission to WRA		
						Frequency	Deadline	
Surface waters	Monitoring and Analysis	Results and Summary Interpretation	As per Annex D1		As per Annex D1	As per Condition 13(c)	As per Condition 13(c)	
Landfill Gas	Monitoring and Analysis	Flammable gas	Concentration	% V/V	Weekly	Monthly	Within 2 weeks following end of month	
		Carbon Dioxide	Concentration	% V/V	Weekly	Each thirteen week period ending 1 January, 1 April, 1 July and 1 October	Within 2 weeks following end of each thirteen week period	
		Oxygen	Concentration	% V/V				
Weather	Atmospheric and weather conditions	Rainfall	Rainfall	mm	Weekly			
		Ambient temperature	Ambient temperature	Degrees °C				
		Atmospheric pressure	Atmospheric pressure	Pa				
		Windspeed	Windspeed	m/s				
		Height A.O.D.	Height A.O.D.	m		Yearly		
		Volume	Volume	m ³		Yearly		
		Remaining sitelife	Remaining sitelife	Months		Yearly		
		Date first waste deposit	Date	Date		1/Cell		
		Date final waste deposit	Date	Date				
		No of days uncapped	Days	Days				
No of days temporary capped	Days	Days						
Cell completion records	Wastes Deposited	Total days exposed waste	Days	Days				
		No days to emplace final cap	Days	Days				
		Wastes Deposited	Group 1	Tonnes				

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WORKING PLAN EXPLANATORY STATEMENT

CONTROL OF POLLUTION ACT 1974

LAND TO THE SOUTH OF WHITEHOUSE FARM

SIMISTER

BURY

On behalf of

COSTAIN ENGINEERING AND CONSTRUCTION LIMITED

and

GEORGE NOBLET (PLANT HIRE) LIMITED

Prepared By

The Hamilton Gee Partnership

Chartered Surveyors

Andrew House

Wigan Lane

Wigan WN1 2BN

December 1993

CONTROL OF POLLUTION ACT 1974

An application seeking a site licence to dispose of overburden materials, including soil, sub-soil and similar to enable the formation of improved field contours to be achieved.

LAND TO THE SOUTH OF WHITEHOUSE FARM

SIMISTER

BURY

On behalf of

COSTAIN ENGINEERING AND CONSTRUCTION LIMITED

and

GEORGE NOBLET (PLANT HIRE) LIMITED

1.00. INTRODUCTION:

- 1.01. The Applicants, for the benefit of the planning permission, were Costain Engineering and Construction Limited, (the Contractor) and George Noblet (Plant Hire) Limited, (the Operator).
- 1.02. The Applicants have reached agreement with the owners of the Application Site to enable the work required, as proposed in this Application, to be undertaken.
- 1.03. Planning consent has been granted by Bury Metropolitan Borough Council under the auspices of planning application number 29132/93 on the 25th November 1993 - see **Appendix A**.
- 1.04. For the purpose of this site licence application the Applicant will be the Contractor, for the purpose of question 1 on the waste disposal application form whilst the Operator will be the party responsible for the daily site management.

- 1.05. The Operator has over 30 years experience in excavating and bulk earth moving. During this time they have acted in the capacity as both main and sub-contractor's on numerous reclamation works undertaken throughout the North West and have worked on this basis on many occasions where major public works contracts have been involved. They have also undertaken similar work for many of the local authorities throughout the North West.
- 1.06. It would be the intention of both the Contractor and the Operator to utilise this site for the deposit of inert fill materials generated exclusively from major engineering works associated with the extension currently being undertaken on the M66 Motorway road widening scheme.
- 1.07. The purpose of this application is to enable inert materials, including soil, sub-soil and similar overburden to be imported on to the site, as described in this Working Plan Explanatory Statement, appended plans and working drawings.
- 1.08. By permitting this application the owners of the Application Site envisage an opportunity to improve the land so that the contours once again marry in with the adjoining landscape, in particular on the western boundary which runs co-extensive with the M66 Motorway at this point.
- 1.09. The proposed finished contours will create a landscape that has both improved drainage and an enhanced soil structure that will enable a better grassland finish to be established than presently exists. In addition, an area of open water and wet land area that currently exists will be improved as part of the drainage proposals for the benefit of the existing flora and fauna that benefits from this habitat.
- 1.10. A set of plans indicating the existing and proposed finished contours and method of working are appended to this Statement.

2.00. THE APPLICATION SITE:

- 2.01. The Application Site is situated in a semi rural location to the south of that area known as Simister; to the east is the urban area of Middleton whilst the centre of Bury is 5.5 kilometres (3.4 miles) to the north west. - see Plan **THGP 1**.
- 2.02. The site, together with the surrounding agricultural land, is classified as being Grade 3 on the Agricultural Classification Map. The subject property, together with the surrounding farm land to the south and east is mostly down to poor permanent grassland. However, a detailed analysis of the land has led us to the opinion that a Class 4 designation is more appropriate.
- 2.03. The site contains a total area of 4.20 hectares (10.37 acres) or thereabouts including the ancillary areas and proposed temporary haul roads and is as defined in detail on Plan **THGP 2**.
- 2.04. The Application Site lies within an area allocated on the approved Greater Manchester Green Belt Local Plan as being within the green belt.
- 2.05. The area to the immediate north of the Application Site contains a number of mostly residential properties that form the area known as Simister.

3.00. **PLANNING HISTORY AND JUSTIFICATION:**

- 3.01. It is clear from an on site inspection that the Application Site is badly drained and the quality of the land is poor.
- 3.02. The application for planning consent proposed that the importation of inert fill from the adjoining motorway construction works be approved. This will enable the existing contours to be improved and through an enhanced system of drainage and landscaping a better landform finish than exists at the present to be created.
- 3.03. It is intended that operations, once commenced, should be pursued on a "once and for all" basis.
- 3.04. The constraints of the main contract for the improvement works being undertaken on the motorway are such that the eastern carriageway of the M66 at this point will be closed towards the end of September until April 1994. This will allow direct access from the construction site to be gained from the area where the fill materials will originate into the proposed landfill site.
- 3.05. This has significant environmental advantages in that the number of vehicles needing to travel on the public highway will be reduced to nil. In addition, there will be substantial reductions in the fuel that would otherwise be consumed again with attendant environmental benefits.
- 3.06. We are of the opinion that these proposals do not impact on the purpose of Green Belt policy as defined in the approved Structure Plan at Policy OL2.
- 3.07. Whilst not a waste disposal operation in the strictest sense of that term it nonetheless fulfils the criteria for waste disposal sites as defined in Policy WD2 of the approved Structure Plan.
- 3.08. As stated above this site now benefits from a grant of planning permission as described in detail at **Appendix A.**

4.00. CATCHMENT AREA AND ANALYSIS OF MATERIALS:

- 4.01. The site operations will be undertaken by a reputable company of long standing who have extensive knowledge of bulk earth moving and reinstatement works.
- 4.02. The source of fill materials are the construction works on the adjoining motorway extension and will be strictly controlled as to both type and condition.
- 4.03. As stated above, the importation of fill materials will be as a result of engineering operations and construction works being awarded to the Operator and the site will be operated on a "once and for all" basis.
- 4.04. The landfill facility will not be available to third parties; it will be for the sole use of the Operator on instruction from the Contractor.
- 4.05. The Operator will manage the site on a day to day basis - see Section 5.00 below.
- 4.06. Based upon the knowledge of the Operator and the relationship with the source of fill materials available it is estimated that importation of materials will continue for a maximum period of six months.
- 4.07. Allowing an extra period for site establishment, clearance of ancillary works etc. and the final reinstatement of the land it is envisaged that the on site operations from start to finish should be completed within 9 months.
- 4.08. The materials that it is anticipated will be delivered to site will include typical site strip materials, i.e. soil, sub-soil, together with clays and sand and other overburden materials.
- 4.09. All these materials will be inert in nature and no contaminated waste will be permitted to be deposited on the site.

- 4.10. Because of the strict degree of control that will be exercised even before the site operations begin and the known point of arisings for the fill materials the Contractor and Operator are confident that no risk of contaminated material being brought to site, let alone deposited thereon need realistically be contemplated.
- 4.11. For further details on the precise volume of fill and the expected rate of landfill see Section 5.00 below.

5.00. METHOD OF WORKING AND RECLAMATION:

- 5.01. The detail with regard to the method of working and reclamation is more particularly described below and will be in the sequence as indicated on the appended plans and drawings accompanying this Working Plan Written Statement.
- 5.02. The access onto the site will be directly from the M66 eastern carriageway, formerly a public and adopted highway. However, for the period of these proposals this section of the carriageway will be closed to public access. Whilst major works of reconstruction are undertaken.
- 5.03. The proposals for the site are deemed sufficient to secure it from trespass of a vehicular nature and the boundaries, easily identifiable on the ground, are such that the existing boundary fences are also considered appropriate for the security of the operations to be undertaken.
- 5.04. A public footpath crosses the site and the necessary steps have been taken to effect a temporary diversion thereof.
- 5.05. The support facilities of offices and stores together with a secure compound for vehicle storage and maintenance and associated hard standing for car parking will be available for the duration of these operations on the adjoining motorway construction area. In addition, further facilities are available at the main compound occupied by Costain Engineering and Construction Limited.
- 5.06. All vehicle movements will ultimately be controlled from the Costain office complex which is situated to the east of that area known as the Middleton roundabout.
- 5.07. The maintenance of earth moving machinery and other ancillary plant will be provided for outside the Application Site in that area referred to at 5.05. above.

- 5.08. No provision for the storage of diesel fuel on the Application Site will be made, such facilities having already been provided in that area referred to at 5.05 above.
- 5.09. The site will be adequately manned during the hours of operation. The level of staffing being as follows:
- 1 no Site Foreman.
 - 1 no Employee involved in earth moving machine operations.
- 5.10. This level of staffing is considered to be appropriate for the nature of operations proposed and is based upon similar requirements for sites that have operated at the proposed levels of input envisaged. However, should there be any significant demand for additional material to be imported then, if considered essential, the level of staffing can be readily increased.
- 5.11. The level of staffing is based on the level of importation as outlined at 5.21 below. Should, however, this differ significantly then obviously adjustments would have to be made thereto.
- 5.12. The hours of operation are to be as follows:
- | | |
|------------------|------------------------|
| Monday to Friday | 7.30.a.m. to 6.30.p.m. |
| Saturday | 7.30.a.m. to 1.30.p.m. |
- Sundays and Bank Holidays - no working except in emergency situations.
- 5.13. Plant and equipment repair may take place outside the above hours as circumstances dictate but would be in accordance with the Council's policies in respect thereof and in any case will be undertaken away from the Application Site.
- 5.14. The plant and equipment to be used will be as follows:
- 1 no Komatsu 85E or Cat D7 Bulldozer.
- 5.14.01. The Operator utilises modern plant and equipment incorporating the latest noise attenuation materials, silencers and/or "hush kits".

5.14.02. The regular maintenance of plant and machinery, to avoid worn or broken parts, is a part of the Operators existing operational policy.

5.15. The method of deposit for the approved landfill materials will be as follows:

- a) After authorisation from the "site" office waste will be directed to the working face initially by the Site Foreman and then by a series of temporary internal site haul roads. These roads will, of necessity, follow the working face.
- b) The waste will be deposited, working from south to north, over the working face from the delivery vehicles being finally placed and compacted by a tracked machine.
- c) Layers of waste will not exceed 2.5m in depth.
- d) The working face and flanks shall not exceed a gradient of 1:3.
- e) The method of the operation when combined with the nature of material deposited, compaction and layering, will be such that the accumulation of voids will be reduced to a minimum.
- f) Each layer of material and covering shall be laid to fall to encourage surface water run-off.
- g) In the unlikely event of any loose waste being deposited this will be collected at least once a week and disposed of in such a way as to keep the site tidy.
- h) No fires will be allowed on site.
- i) Precautions will be taken to deal with any vermin and insects that may be attracted to the site although this is considered unlikely due to the inert nature of the materials it is proposed to import.



finished landform proposed. Allowing for a figure of settlement of 5% then the foregoing figure should be increased to one of 5250 loads. It is envisaged that a minimum of 40 loads of fill will be deposited on the site each day.

5.22. Accordingly, it can be seen that the phase for infilling will last for a maximum of 26 weeks.

5.23. Allowing an extra period for the preparation and restoration work the total expected life of the operation would be circa 9 months.



6.00. LANDFORM AND LANDSCAPING:

6.01. The proposed finished landform and landscaping will be as shown on the Proposed Landform Plan and on the appended Sections Plan.

6.02. The landscaping proposals are designed to:

- a) Produce at the earliest date after the completion of landfilling an area of land suitably contoured to harmonise with the immediate environs.
- b) Ultimately produce, when the area has had time to regenerate and become established, an attractive landscape that will improve on the existing contours and create an improved drainage regime to the benefit of the land.

6.03. The final level and contouring of the site will be determined by the following criteria:


- a) The height of the original landform together with that surrounding the site.
- b) The desirability to produce an area of land which will allow the finished contours to marry into the existing contours as naturally as possible on the edges adjacent to the existing agricultural areas surrounding the site.
- c) To produce a contour profile that is safe for farm vehicles to negotiate when fertilising and spraying the land.
- d) So that the reinstated area can be given over to permanent grassland.

6.04. As much of the infill materials delivered to the Application Site will include top soil and sub-soil, this, when combined with the existing top soil and sub-soil materials already on the site, will effectively achieve a rolling programme of restoration. This will have the desired result of minimising the visual impact of working on this site.



6.05. In any event the proposals will provide for the following:

- a) Over the area of grassland finish appropriate sub-soil, or other material approved by the Borough Planning Officer, to a minimum depth of 850mm, will be deposited where necessary. This will be both material brought to site that will be stored in an appropriate safe location away from the working area until such time as it can be used in the reinstatement, together with materials placed at one side taken from the area stripped before works of infill commence.
- b) The final sub-soil layer to be wing tined to a depth of 850mm, before the spreading of a top-soil layer, in two phases at right angles to each other.
- c) The provision of a minimum 150 mm depth of top-soil, or similar material approved by the Borough Planning Officer, to be spread and levelled in a dry and friable condition.
- d) The top-soil to be spread, levelled, disc cultivated and harrowed with light agricultural machinery.
- e) All areas are to be sown to permanent grass.
- f) Allowance for soil samples to be tested to determine the Ph value and limestone requirement and ground limestone applied at the rates required to achieve neutral to slightly acid Ph.
- g) Apply pre-seeded general "N.P.K." fertiliser or similar in accordance with the manufacturers instructions.
- h) Sow down to permanent grass, by machine, evenly over a prepared seed bed a seed mixture at the rate of 40 Kg/ha and lightly harrow and roll in. Such mixture to be determined by soil conditions on completion of works of reclamation.

- 
- i) Before any hedge planting takes place on the boundaries protective fencing should be erected. The fencing should comprise timber post and wire, 1200mm high when erected. Fencing to be erected on all sides of the hedge planting which is not substantially protected by an existing fence of suitable height and condition. Hedges should be protected on both sides. Fencing materials and methods of erection to comply in all respects to B.S.1722.
- j) Areas to be replanted should be pre-treated with a general slow release fertiliser such as "Enmag" or similar to be approved by the County Planning Authority and applied in accordance with the manufacturers instructions.
- k) Hedges, when planted, should be planted with *Crataegus monogyna* (hawthorn), 300-450mm tall at planting and comply in all respects with B.S.3936. Planted in two rows, 450mm between the rows and planted at 300mm spacing in the rows. Plants to be staggered in the rows so that no two plants are opposite each other. Following planting, provide and spread between the plants, slow release general fertiliser such as "Enmag", or similar to be approved by the County Planning Authority.
- l) All the planting, grass seeded areas and protective fencing, shall be maintained for a period of five years. During that time, any hedge found to be dead, dying, damaged or diseased shall be replaced with hedge plants of a similar species and size to those originally planted. Any areas of seeding which fail shall be reseeded and shall be dressed with appropriate fertilisers to retain a good sward. All protective fencing shall be maintained in good repair and damage made good immediately.
- m) If a field drainage system is required on completion this will be agreed with the respective landowners and the Borough Planning Officer if considered appropriate.



- n) During the five year period of after maintenance any depressions which have occurred in the site shall be made up to level with top-soil or similar materials. The site treated with a general fertiliser and reseeded of any disturbed or poorly seeded areas shall take place.

SCHEDULE OF PLANS

Plan THGP 1 - Regional Location Plan

Plan THGP 2 - Site Plan

Plan THGP 3A - Existing Contour Plan

Plan THGP 4A - Sections Plan

Plan THGP 5A - Proposed Finished Contour Plan

Plan THGP 6 - Working Plan

Appendix A

PLANNING PERMISSION

To:

THE HAMILTON GEE PARTNERSHIP
ANDREW HOUSE
WIGAN LANE
WIGAN
WN12 2BN

On Behalf Of:

GEORGE NOBLET (PLANT HIRE) LTD
& COSTAIN ENGINEERING & CONSTRUCTION
BRANDY HOUSE BROW
BLACKBURN
BB2 3EY

PART I - Particulars of Application

Application Number: 29132/93

Date of Registration: 08/10/93

Proposal: **DEPOSIT OF OVERBURDEN WASTE FROM ADJACENT MOTORWAY;
CONSTRUCTION WORKS TO REGRADE AND IMPROVE THE QUALITY OF
AGRICULTURAL LAND**

Location: **LAND TO THE SOUTH OF WHITEHOUSE FARM SMISTER PRESTWICH**

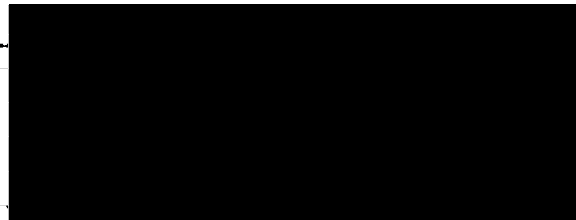
PART II - Particulars of Decision

The Bury Metropolitan Borough Council hereby give notice in pursuance of the provisions of the Town & Country Planning Act 1990 that **PERMISSION HAS BEEN GRANTED** for the carrying out of the development referred to in Part I hereof in accordance with the application and plans submitted subject to the following conditions :-

- 1 The development must be begun not later than five years beginning with the date of this permission.
- 2 The permitted development relates to the area shown edged red on Drawing No 29132/93 (THGP2) attached to and forming part of this permission.
- 3 Tipping operations and all other associated works shall be completed in accordance with the details as indicated on Drawings Nos 29132/93 THGP3, THGP4A, THGP5A, THGP6, and THGP7 and as described in the supporting statements including letters attached to and forming part of this permission.
- 4 Tipping operations shall commence with the date of this permission and shall cease not later than 6 months from the commencement date. Following the completion of the tipping operations, the restoration works, including the landscape, shall be completed within 6 months.

(continued on attached sheet(s) if necessary)

Signed



On behalf of the Council.

Date of Decision: 25th November 1993

- 5 Prior to the commencement of tipping operations or any associated works all available topsoil and subsoil shall be removed and stored at locations shown on 29132/93(THGP6).
- 6 The tipping of the waste materials, the operations and maintenance of vehicles and site machinery shall be carried out between the hours of 0730 and 1830 Monday to Friday and 0730 and 1300 on Saturday.
- 7 All internal combustion engines or other machinery used in connection with the operation and maintenance of the site shall be equipped with effective silencing equipment in an efficient condition at all times, as may be reasonably appropriate to the satisfaction of the Local Planning Authority.
- 8 All reasonable measures shall be taken to ensure that the operations on the site do not give rise to nuisance by virtue of dust or wind blown materials.
- 9 The developer will ensure that the site is adequately fenced at all times during the carrying out of the permitted works and the fence, in the event of damage is repaired to the satisfaction of the Local Planning Authority.
- 10 On completion of the tipping operations the final land formation of the site will be prepared in accordance with the details shown on the Drawing No. 29132/93(THGP5A) and any other associated document forming part of this permission.
- 11 Any drainage from the proposed development and any modifications necessary to the motorway drainage system resulting from it shall be subject to the agreement of the Local Planning Authority in consultation with the Department of Transport.
- 12 Any drainage from the proposed development and modifications necessary to the motorway drainage system resulting from it shall be subject to the agreement of the Local Planning Authority in consultation with the Department of Transport.

The Reasons for the Conditions are:-

- 1 Required to be imposed by Section 91 of the Town & Country Planning Act 1990.
- 2 For the avoidance of doubt.
- 3 For the avoidance of doubt.

- 4 For the avoidance of doubt.
- 5 In the interest of proper site restoration.
- 6 In the interest of the amenities of the area.
- 7 In the interest of the amenities of the area.
- 8 In the interest of the amenities of the area.
- 9 In the interest of the amenities of the area.
- 10 To ensure a satisfactory form of development.
- 11 As required by the Department of Transport.
- 12 As directed by the Department of Transport.

Notes:- Please read the attached notes.

The applicant's attention is drawn to the existence of Public Right of Ways No. 24 & 29 across part of the site. No development should take place which affects the Right of Way in the absence of an appropriate closure or diversion orders.

The applicants attention is drawn to the requirement of a site licence from the Greater Manchester Waste Regulation Authority prior to the commencement of tipping operations on the site.

WASTE DISPOSAL LICENCE APPLICATION FORM

LICENCE APPLICATION NO RD/LIC/1046/93.....(for official use only)

NOTE: In completing this form applicants should consider carefully the answers given as the details may form part of the waste disposal licence which is a legally binding document. If any difficulties are encountered please contact Licensing Ext 137.....

Question 1 APPLICANT (Proposed Licence Holder)

Please give name and address of person or organisation in whose name the licence will be issued.

Costain Construction & Engineering Limited

Costain House, Kelvin Avenue, Middleton,

Manchester

Post Code M24 4RA Tel No 061 654 6511

Status of applicant:

- a) Private individual
- b) Private limited company
- c) Public limited company
- d) Partnership
- e) Local Authority

G. M. W. R. A.		
REC'D. 03 DEC 1993		
FOR:	INDEX	DATE
FILE		

Tick Box

-
-
-
-
-

If applicant is a company, please give the name of the director who will be responsible for the facility and the address of the registered office.

Director

Registered Office

Post Code Tel No

If applicant is a company which is part of a larger organisation, please give the name(s) and address of the registered office of the parent company.

Parent company name

Registered Office

Post Code Tel No

If the applicant is a partnership, please give the names of all the partners.

Names of partners

Please give name and address of agent dealing with licence application if any.

The Hamilton Gee Partnership
Andrew House
Wigan Lane Wigan
Post Code WN1 2BN Tel No 0942 33836

Question 3 OPERATOR / OCCUPIER

Tick Box

Will the occupier or operator of the facility be different from the applicant?

YES

NO

If answer is "YES", please state the name and address of person or organisation who will operate facility. For an organisation also give the name and position of the person who will be responsible for the daily management of the facility.

Name George Noblet (Plant Hire) Limited

Address Brandy House Brow

Blackburn

Lancashire

Person Responsible George Noblet

Please state the nature of the contractual relationship with the operator of the facility.

Nature of Contractual Relationship Sub-contractor to main contractor

Question 4 LAND OWNERSHIP

Tick Box

Do you own the land on which the proposed waste disposal facility is to be situated?

YES

NO

If no, please give full details of arrangement entitling you to use the land eg, contract, lease (please give full details in case of joint or partial ownership).

A licence agreement to occupy the land has been negotiated with the land owners

Please give address or location of the facility in sufficient detail for it to be readily identified.

Land to the south of Whitehouse Farm, Farm Lane, Simister, Bury

Grid Reference
(8-figure)

S	D	8	3	3		0	5	7	
---	---	---	---	---	--	---	---	---	--

Map code Eastings Northings

Question 6 TYPE OF FACILITY

Is the proposed facility a:

-Tick Box

- Containment Landfill - Clay-Lined
- Containment Landfill - Composite-Lined
- Inert Landfill
- Civic Amenity Site
- Transfer Station - Non-Special Wastes
- Transfer Station - Special Wastes
- Transfer Station - Clinical Wastes
- Transfer Station - Solvents
- Storage Facility - Bulk Liquid Wastes
- Treatment Plant - Chemical
(includes waste oil and waste solvent treatment/reclamation plant)
- Treatment Plant - Biological
(includes Sewage Treatment Plant)
- Treatment Plant - Physical
(includes baling plant, crushing plant, etc)
- Incinerator - Special Wastes
- Incinerator - Clinical Wastes
- Drum Reclaimer/Reconditioner
- Scrap Metal Dealer
- Refrigerants Store (gases)
- Other (please specify)

Before a Waste Disposal Licence can be issued a valid Planning Permission for the facility must be granted and supplied to us. Applicants who are unsure of the planning status of the facility are advised to contact their local Planning Authority on this matter as soon as possible.

Planning Status:

Tick Box

- a) Planning permission granted please enclose copy
- b) Planning permission applied for, date please enclose copy of form
- c) Planning permission to be applied for
- d) General Development Order Permission (specify which class)
- e) Established Use Certificate / Certificate of Lawful use please enclose copy

Any comments on planning status:

..... Planning application No. 29132/93 - Granted 25th November 1993

Please enclose a copy of the plans submitted in support of the planning application with your application for a Waste Disposal Licence.

Question 8 OPERATING HOURS

State proposed hours of operations, please use 24 hour clock.

	Open for receipt / removal of waste.		Operating Hours, if different.	
	FROM	TO	FROM	TO
Monday to Friday	7.30.a.m.	6.30.p.m.		
Saturday	7.30.a.m.	1.30.p.m.		
Sunday				
Public Holidays				

Total number of operating hours per week 61

Question 9 CAPACITY OF FACILITY

Estimate the proposed maximum capacity of the facility. Include details in your working plan of the storage capacity of any designated storage areas bays and containers.

Landfill - volume of airspace (m³) = 50,000 m³

Transfer station)
 Storage facility) storage (m³ or tonnes) = m³ / tonnes
 Treatment plant) and
 Incinerator) rate of use (tonnes) = day/week
 Scrap metal dealer)

Drum reclaimer - storage (number and size of drums) = drums

Estimate useful life or remaining useful life of facility:9..... months / years

QUESTION 11 START DATE

Give date use of facility is anticipated to commence: ...At the earliest date possible - see appended correspondence
Please note that it is illegal to operate without a valid Waste Disposal Licence

QUESTION 12 USE OF LAND

What is the previous use of the land? ...Grazing Land.....

Give proposed final use of land (landfill sites only).....Grazing Land.....

Give likely commencement date for such use:Summer 1994.....

Question 13 ENVIRONMENTAL ASSESSMENT OF THE PROPOSAL -
only necessary for certain facilities, refer to Environmental Assessment Regulations.

Tick Box

Has an Environmental Impact Assessment been carried out for the proposed facility, in support of the Planning Permission Application ?
YES
NO

If no, please state reasons whyAn Environmental Impact Assessment is not applicable to this.....
.....application......

If yes, please attach a copy.

Question 14 ENVIRONMENTAL INVESTIGATION OF THE SITE- only necessary for certain facilities.

A) SITE HYDROGEOLOGICAL INVESTIGATION

Has a Hydrogeological Investigation been carried out for the site of the proposed facility?
YES
NO

Tick Box

no, please state reasons whyA Hydrogeological Investigation is not applicable to this application.....
.....

If yes, please attach a copy of the relevant report.

B) BACKGROUND MONITORING

Has a programme of baseline environmental monitoring been developed for the site ?
YES
NO

Tick Box

If no, please state reasons whyBaseline environmental monitoring is not considered applicable due to.....
.....the nature of the proposals as defined in this application......

If yes, please attach details of the investigation and monitoring results obtained so far..

QUESTION 15 WORKING PLAN

The Working Plan forms an **essential** component of a complete application. At least a first draft should be prepared and submitted before the application can be considered. The final draft of the Working Plan must be approved of in writing, by this Authority, before a licence can be issued.

So as to avoid unnecessary delay in the processing of the application, you should read the General Guidance Notes on the Format and Content of the Working Plan that are attached to the back of this form, and then complete a Working Plan describing in detail the Subject Areas specific to your type of facility. These subject areas are described more fully in the guidance notes enclosed with this form.

The first draft Working Plan should be typewritten, with separate Annexes if appropriate, covering, in as much detail as practicable, the information listed in the Notes and the guidelines. It should bear the title 'Working Plan', the applicant and site details, draft number and date on the title page, and it should be signed. You should realise that the draft may have to be significantly revised to a second draft, to provide the relevant information required to condition a licence specification for your facility.

On receipt of the application, which consists of all the documents listed on page 8 of this form, the Authority will contact you for any further details that may be needed to process your application.

Tick Box

Has a first draft Working Plan been completed for the proposed facility?

YES

NO

YOUR APPLICATION CANNOT BE CONSIDERED UNTIL THE FIRST DRAFT OF YOUR WORKING PLAN, CLEARLY DETAILING ON SITE OPERATIONS, HAS BEEN SUBMITTED.

If a first draft Working Plan has not been completed, please give reasons.

.....

.....

.....

PLEASE NOTE A LICENCE WILL NOT BE ISSUED UNTIL THE WORKING PLAN IS AGREED BY THIS AUTHORITY AS CONTAINING SUFFICIENT INFORMATION AND BEING OF THE REQUIRED QUALITY TO ENSURE THAT THE PREPARATION AND OPERATION OF THE SITE WILL SATISFY THE LICENCE CONDITIONS

Please complete Appendix A, attached to the back of this form, giving the waste types the facility is intended to receive.

NOTE: Refer to table below before completing Appendix A. Waste types given in Appendix A, and are divided into 5 Groups for the purpose of licensing different types of waste disposal facilities. The table below gives a broad indication of the Waste Group(s) which each type of facility referred to in Question 6 are permitted to receive. It should be noted that only certain waste types within each Group may be permitted by the licence, depending upon the type of facility, and that the quantity of throughput of all wastes may be limited by the licence.

TYPE OF FACILITY	WASTE GROUPS				
	1	2	3	4	5
Containment Landfill - Clay-Lined					
Containment Landfill - Composite-Lined					
Inert Landfill					
Civic Amenity Site					
Transfer Station - Non-Special Wastes					
Transfer Station - Special Wastes					
Transfer Station - Clinical Wastes					
Transfer Station - Solvents					
Storage Facility					
Treatment Plant - Chemical					
Treatment Plant - Biological					
Treatment Plant - Physical					
Incinerator - Non-Special Wastes					
Incinerator - Special Wastes					
Incinerator - Clinical Wastes					
Drum Reclaimer/Reconditioner					
Scrap Metal Dealer					

NOTE: Unshaded cell = Permitted Group; Shaded cell = Non-Permitted Group.

DECLARATION

This section should be signed by the proposed Licence Holder.

The details given by me in support of this application are to the best of my knowledge correct and I formally apply to the Waste Regulation Authority for a waste disposal licence for the above facility. I am aware that to provide false information or make a reckless statement in an application for a waste disposal licence is an offence under Section 5(6) of the Control of Pollution Act 1974.

SIGNED DATE

NOTE:

To complete the application you must send the following to the Greater Manchester Waste Regulation Authority, 6th Floor, Blackfriars House, Parsonage, Manchester M3 2JA:

- | | | |
|-----|--|----------------|
| (a) | Completed Licence Application Form (including Appendix A) | 1 copy |
| (b) | Location Plan (scale 1:2500 or 1:10000, A3 or A4 size) | 1 copy |
| (c) | Diagram of layout of the facility, (access, treatment and processing areas, etc.) | 3 copies |
| (d) | Site Boundary Plan (to scale, A3 or A4 size, showing boundary of site in accordance with Planning Application or Consent, and in relation to surrounding features) | 3 copies |
| (e) | Planning Permission, and plans submitted in support of planning application. | 1 copy of each |
| (f) | Working Plan. | 2 copies |
| (g) | Petroleum Licence (for storing flammable substances). | 1 copy |
| (h) | Fire Authority Approval (if required). | 1 copy |
| (i) | Environmental Assessment Report (if carried out) | 1 copy |
| (j) | Site Hydrogeological Investigation Report (if carried out) | 1 copy |
| (k) | Consent to Discharge to drains, sewers, or watercourses, from NRA or NWW. | 1 copy |

FOR OFFICIAL USE ONLY

Date Application received *3.12.93*

'A) Application Form complete: YES/NO *Not Signed*

(B) All required documents and plans enclosed: YES/~~NO~~

(C) If 'NO' to either (A) or (B), state missing information required:

..... *App Not Signed*

.....

.....

(D) Date Acknowledgement Letter sent, enclosing further guidance, if required. */*

Officer Name: [Redacted] Signature: [Redacted]

Date: *6.12.93*

INTENDED WASTES FOR DISPOSAL

ESTIMATED MAXIMUM DAILY
INPUT OF WASTES (TONNES/DAY)

WASTE GROUP	ESTIMATED MAXIMUM DAILY INTAKE (TONNES/DAY)
GROUP 1	
GROUP 2	
GROUP 3	
GROUP 4	
GROUP 5	
TOTAL	

GROUP 1 WASTE TYPES	TICK BOX
SOIL CLASS A (UNCONTAMINATED SOIL)	✓
UNCONTAMINATED RUBBLE/HARDCORE	
STONE	
CLAY	✓
SAND (EXCEPT FOUNDRY SAND)	✓
SILICA, CARBON, KIESELGUHR (EXCEPT WHERE USED AS FILTER MATERIAL)	
GLASS, POTTERY, CHINA, FIRED ENAMELS, CERAMICS, MICA	
BRICKWORK	
CONCRETE	
BOILER SCALE	
SLAG/ASH/CLINKER	
WEATHERED TAR/BITUMEN AGGREGATE	
MINERAL PROCESSING WASTES	
MIXED WASTES (GROUP 1) (as follows):	
MIXED PERMITTED WASTE TYPES FROM GROUP 1 ONLY	

GROUP 2 WASTE TYPES	TICK BOX
WOOD - TREATED TIMBER	
WOOD - UNTREATED TIMBER	
WOOD PRODUCTS - HARDBOARD, CHIPBOARD	
SAWDUST/SANDERDUST	
TREES, BUSHES, TREE/HEDGE CUTTINGS	
PAPER, INCLUDING OILED/TARRED PAPER	
CARDBOARD, FIBREBOARD	
CORK, EBONITE, KAPOK	
PLASTIC	
TANNED LEATHER	
TEXTILES/FIBRES - NATURAL OR MAN-MADE	
CEMENT (EXCEPT AS CONSTITUENT OF BRICKWORK OR CONCRETE)	
CONTAMINATED WASTES (GROUP 2) (as follows):	
WASTE TYPES OTHERWISE PERMITTED FROM GROUP 1 OR GROUP 4 WITH CONTAMINATION LEVELS EXCEEDING THOSE SPECIFIED FOR SOIL CLASS A IN ANNEX B BUT WITHIN THOSE SPECIFIED FOR SOIL CLASS B	
CONTAMINATED SOIL (as follows):	
SOIL CLASS B (SLIGHTLY CONTAMINATED SOIL)	
MIXED WASTES (GROUP 2) (as follows):	
MIXED PERMITTED WASTE TYPES FROM GROUP 2 ONLY	
MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND 2	

GROUP 3 WASTE TYPES	TICK BOX
HOUSEHOLD REFUSE - TREATED OR UNTREATED	
COMMERCIAL REFUSE (CONSISTING OF PAPER, CARDBOARD, PLASTIC, WOOD)	
EMPTY USED CONTAINERS (CONSTRUCTED OF METAL, GLASS, PLASTIC, PAPER, CARDBOARD, WOOD, ETC.)	
SCRAP MACHINERY/EQUIPMENT - FERROUS	
SCRAP MACHINERY/EQUIPMENT - NON-FERROUS	
ELECTRICAL FITTINGS/FIXTURES/APPLIANCES	
VEGETABLE MATTER (OTHER THAN TREES, BUSHES, TREE/HEDGE CLIPPINGS)	
WASTE FOOD OR FOOD PROCESSING MATERIALS	
ANIMAL CARCASSES OR PARTS THEREOF	
CLINICAL WASTE - TREATED OR UNTREATED	
RUBBER (INCLUDING TYRES)	
SOAP	
DETERGENTS	
COSMETIC PRODUCTS - RETAIL ONLY	
DRY SEWAGE SLUDGE	
INCINERATOR RESIDUE	
FOUNDRY SAND	
PLASTER	
PLASTERBOARD	
CONTAMINATED WASTES (GROUP 3) (as follows): WASTE TYPES OTHERWISE PERMITTED FROM GROUP 1, GROUP 2 OR GROUP 4 WITH CONTAMINATION LEVELS EXCEEDING THOSE SPECIFIED IN ANNEX B FOR SOIL CLASS B, BUT WITHIN THOSE FOR SOIL CLASS C.	
CONTAMINATED SOIL (as follows): SOIL CLASS C (CONTAMINATED SOIL)	
MIXED WASTES (GROUP 3) (as follows): MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND/OR GROUP 2 AND/OR GROUP 3	
MIXED PERMITTED WASTE TYPES FROM GROUP 3 ONLY	

GROUP 4 WASTE TYPES	TICK BOX
ASBESTOS LAGGING - ALL FORMS	
ASBESTOS FIBRE/POWDER	
ASBESTOS SHEET/PIPING, COMPOSITE/BONDED	
MIXED WASTES (GROUP 4) (as follows): MIXED PERMITTED WASTE TYPES FROM GROUP 4 ONLY	
MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND/OR GROUP 2 AND/OR GROUP 3 AND GROUP 4	

GROUP 5 WASTE TYPES	SOLID (TICK BOX)	SLUDGE (TICK BOX)	LIQUID (TICK BOX)
INORGANIC ACIDS:			
ORGANIC ACIDS AND RELATED COMPOUNDS:			
HYDROXIDES OF SODIUM, POTASSIUM OR CALCIUM			
OXIDES OF SODIUM, POTASSIUM OR CALCIUM			
CARBONATES OF SODIUM, POTASSIUM OR CALCIUM			
AMMONIA			
PROPRIETARY ALKALINE CLEANERS			
ALKALI METAL PHOSPHATES			
<u>METALS AND INORGANIC METAL COMPOUNDS</u>			
ALUMINIUM			
ALUMINIUM COMPOUNDS			
BARIUM AND BARIUM COMPOUNDS			
BERYLLIUM AND BERYLLIUM COMPOUNDS			
BORON AND BORON COMPOUNDS			
CADMIUM AND CADMIUM COMPOUNDS			
CALCIUM AND CALCIUM COMPOUNDS			
CHROMIUM			
CHROMIUM COMPOUNDS			
COBALT AND COBALT COMPOUNDS			
COPPER			
COPPER COMPOUNDS			
IRON AND IRON COMPOUNDS			
LEAD AND LEAD COMPOUNDS			
MAGNESIUM AND MAGNESIUM COMPOUNDS			
MERCURY AND MERCURY COMPOUNDS			
MOLYBDENUM AND MOLYBDENUM COMPOUNDS			
NICKEL AND NICKEL COMPOUNDS			
OSMIUM AND OSMIUM COMPOUNDS			
PHOSPHORUS			
PHOSPHORUS COMPOUNDS			
POTASSIUM AND POTASSIUM COMPOUNDS			
SILVER AND SILVER COMPOUNDS			
SODIUM			
SODIUM COMPOUNDS			
THALLIUM AND THALLIUM COMPOUNDS			
TIN AND TIN COMPOUNDS			
TITANIUM AND TITANIUM COMPOUNDS			
TUNGSTEN AND TUNGSTEN COMPOUNDS			
ZINC AND ZINC COMPOUNDS			
ZIRCONIUM AND ZIRCONIUM COMPOUNDS			
<u>METALLOID ELEMENTS AND COMPOUNDS</u>			
ANTIMONY AND ANTIMONY COMPOUNDS			
ARSENIC AND ARSENIC COMPOUNDS			
BISMUTH AND BISMUTH COMPOUNDS			
SELENIUM AND SELENIUM COMPOUNDS			
TELLURIUM AND TELLURIUM COMPOUNDS			
<u>ORGANIC COMPOUNDS</u>			
ORGANOHALOGEN COMPOUNDS			
ORGANO-METALLIC COMPOUNDS			
ORGANO-NITROGEN COMPOUNDS			
ORGANO-SULPHUR COMPOUNDS			

GROUP 5 WASTE TYPES	SOLID (TICK BOX)	SLUDGE (TICK BOX)	LIQUID (TICK BOX)
ORGANO-PHOSPHORUS COMPOUNDS			
PHENOLS, ANALOGUES AND DERIVATIVES			
PEROXIDES			
CHELATING COMPOUNDS			
PTHALATES			
SOLVENTS			
THINNERS			
MIXED SOLVENTS AND THINNERS			
PETROL, KEROSENE, DERV, FUEL OIL			
MINERAL OIL			
FATS AND GREASES			
<u>OTHER COMPOUNDS (INORGANIC OR ORGANIC)</u>			
CYANIDES (ALL TYPES)			
SULPHIDES			
SELENIDES			
TELLURIDES			
ARSENIDES			
OXIDISING COMPOUNDS			
CARBIDES AND ACETYLIDES			
<u>POLYMERIC MATERIALS:</u>			
PRECURSORS, MONOMERS AND PRODUCTS OF INCOMPLETE POLYMERISATION			
FINISHED PRODUCTS AND MANUFACTURING SCRAP			
SCRAP RUBBER (EXCLUDING TYRES)			
LATEX, LATEX/RUBBER SOLUTIONS/SUSPENSIONS			
SYNTHETIC ADHESIVE WASTES			
ION EXCHANGE RESIN WASTES			
<u>FINE CHEMICALS:</u>			
PHARMACEUTICALS			
COSMETIC PRODUCTS			
<u>BIOCIDES, ETC:</u>			
BIOCIDES			
PESTICIDES			
HERBICIDES			
FUNGICIDES			
<u>MISCELLANEOUS CHEMICAL WASTES</u>			
MIXED ORGANIC COMPOUNDS			
MIXED INORGANIC COMPOUNDS			
LABORATORY CHEMICALS			
UNIDENTIFIED CHEMICALS			
ORGANICS IDENTIFIED BY TRADE NAME ONLY			
INORGANICS IDENTIFIED BY TRADE NAME ONLY			
<u>FILTER MATERIALS, CONTAMINATED RUBBISH AND TREATMENT SLUDGE:</u>			
USED FILTER MATERIALS (INCLUDING CARBON, KIESELGUHR)			
CONTAMINATED RUBBISH (BAGS, SACKS, CONTAINERS)			
PCB CONTAMINATED ITEMS			
INDUSTRIAL EFFLUENT TREATMENT SLUDGE			
FILTER SCREENINGS			

GROUP 5 WASTE TYPES	SOLID (TICK BOX)	SLUDGE (TICK BOX)	LIQUID (TICK BOX)
<u>INTERCEPTOR WASTES, TARS, PAINTS, DYES AND PIGMENTS:</u> TANK CLEANING SLUDGE INTERCEPTOR PIT WASTES PRINTING INDUSTRY WASTES (INK MANUFACTURE/USE) PAINT/VARNISH WASTES (MANUFACTURE/USE) DYESTUFFS WASTE DISTILLATION RESIDUES TAR, PITCH, BITUMEN AND ASPHALTS (EXCEPT AS WEATHERED TAR/BITUMEN AGGREGATE) ACID TARS			
ANY OTHER COMPOUNDS please specify here:			
<u>CONTAMINATED WASTES (GROUP 5) (as follows):</u> WASTE TYPES OTHERWISE PERMITTED FROM GROUPS 1 TO 5 WITH CONTAMINATION LEVELS EXCEEDING THOSE SPECIFIED IN ANNEX B FOR SOIL CLASS C, BUT WITHIN THOSE SPECIFIED FOR SOIL CLASS D			
<u>CONTAMINATED SOILS (as follows):</u> SOIL CLASS D (HEAVILY CONTAMINATED SOIL) SOIL CLASS E (UNUSUALLY HEAVILY CONTAMINATED SOIL)			
<u>MIXED WASTES (GROUP 5):</u> MIXED PERMITTED WASTE TYPES FROM GROUP 5 ONLY MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND/OR GROUP 2 AND/OR GROUP 3 AND/OR GROUP 4 AND GROUP 5			



HAMILTON GEE PARTNERSHIP

8th December 1993
(dictated 7th December 1993)

Andrew House • Wigan Lane • Wigan WNI 2BN
Tel: 0942 33836 • Fax: 0942 496290

By facsimile & post 061 832 2917
JRJG/msg

Greater Manchester Waste Regulation Authority
Blackfriars House
The Parsonage
Manchester

For the attention of Dr.Sue Bradburne.

Dear Dr Bradburne,

Re: Land to the south of Whitehouse Farm, Simister.

Further to our telephone conversation of today's date I would now comment as follows:

With regard to environmental monitoring, Costain Construction & Engineering Limited already have retained members of their staff to undertake this type of work. This is undertaken both for general purposes in connection with their construction activities and more specifically with regard to contaminated waste for which a designated site has been created.

Landfill Gas:

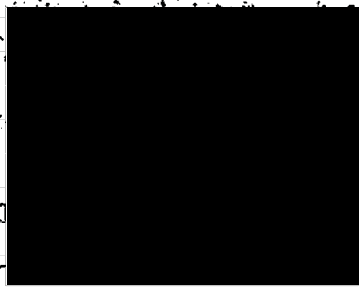
It is understood that a base line survey is required for this aspect of the proposals. Clearly, this should be agreed as to the number and location of the monitoring points. These measurements will be undertaken utilising an approved portable gas detector to monitor an agreed list of gasses.

Surface Water Sampling:

Surface water collects in one limited area as identified on Plan THGP 5A. From this weekly conductivity tests can be carried out if required.

We trust the foregoing is satisfactory for your purposes and would once again stress the necessity for your earliest approval in this matter.

Yours sincerely
for THE HAMILTON GEE PARTNERSHIP



G. M. W. R. A.		
REC'D. 09 DEC 1993		
FOR:	INIT'L'S	DATE

Chartered Surveyors
J. R. J. Gee A.R.I.C.S.

FACSIMILE TRANSMISSION

FAX NO : 061 832 2917
FROM : Andy Sykes
TO : GMWRA
ATTN : Charlotte Danvers
DATE : 17/12/93
PAGE : 5 including cover.

Waste Disposal Licence Application 120/110/1046/93

1 ded copy of information/amendments to
plan as discussed.

Regards



1.0

Various trial pits and boreholes have been completed for the design and construction of the M66, adjacent to the tip site. These indicate glacial strata to considerable depth, down to 26 metres in boreholes for Simister Lane Bridge.

The glacial strata comprise predominantly of cohesive soils which are typically very stiff brown sandy, very silty clay with occasional gravel.

The water table is approximately 1.5 metres below ground level and, therefore, on penetration of a sand or gravel bed during boring water entered the hole.

Trial pits were excavated in the proposed tip site during September 1993, for the purpose of searching for Class 7H clay. Below approximately 200mm of topsoil was loose mottled grey and yellowish brown silty, very clayey sand with occasional beds of sandy clay. No water was encountered in the trial pits, but the sand was saturated. The trial pits were stable to a depth of 3 metres.

At the lowest point of the proposed tip area is a pond. This pond has been dug to a shallow depth and the arisings presumably spread over the surrounding area. This pond has a drainage outfall to the existing motorway drainage system. The drain appears to be blocked at present.

Other than the above, there is no evidence of land use other than agricultural.

2.0

One monitoring point is proposed, the pond, as the contours of the site will ensure this is the only collection point for surface water.

The following schedule for the background and operational phases of the sites is proposed.

Background (ie., Pre-Disposal)

To be taken and analysed, prior to deposit of further material, 3 samples for the following determinants :-

- Conductivity
- pH Value
- COD
- Temperature
- Dissolved Oxygen
- Ammoniacal Nitrogen
- Alkalinity
- Chloride
- Sulphate

Operational (ie., Disposal and Final Landscaping of the Site)

WEEKLY	MONTHLY
Conductivity	Dissolved Oxygen
pH Value	Ammoniacal Nitrogen
Temperature	Alkalinity
COD	Chloride
	Sulphate

Analytical data will be supplied to GMWRA within one calendar month of the sample being taken.

3.0

After appraisal of the extensive geotechnical information relating to the proposed disposal site and of the source and nature of the material to be imported, there appears to be little risk of a landfill gas problem.

Consequently, we propose a sub surface monitoring survey of the site with measurements at points 5m in from the boundary, at 25m intervals along the perimeter of the site. This will be undertaken prior to works commencing to give a background baseline, immediately on completion of landscaping works, and should significant landfill gas be detected, at 6 monthly intervals until measurements drop to an acceptable level, in accordance with Section 7.9 a) of Waste Management Paper No.27 (Second Edition).

The sub surface monitoring will be in accordance with Section 7.31 of Waste Management Paper No.27 (Second Edition) and will be undertaken by an independent consultancy.

4.0

Currently ground contours allow rainfall to percolate into the soil and flow in the direction of a pond towards the centre of the proposed tip site. The pond has a 225mm diameter overflow outlet which is connected into the motorway drainage system.

The proposed drainage system follows the same principles as the existing and the layout is shown on drawings CBCE/M66/053 and 054, which is included.

The overflow pipe is the same diameter and at the same gradient as the existing. The rainfall catchment area is not changed from the existing.

4.0/cont...

The revisions to the motorway drainage system have been sent to L. G. Mouchels for their checking and approval. These drains will be constructed together with the rest of the motorway drainage system by our specialist drainage subcontractor, Goldstar Limited.

There has been no dewatering exercise in this vicinity.

5.0

Due to changes in our Programme of Works, there is now sufficient time to allow the whole of the landscaping operation to be completed, prior to opening of the Southbound carriageway. There is, therefore, no requirement to use the public highway.

All material deliveries to site will be by 30 tonne Terex dump trucks. Due to the inert nature and damp condition of these natural soils, the trucks will not be sheeted.

If for some reason work is not entirely complete, then access for delivery plant will be via Simister Lane. Under no circumstance will landfill materials be brought to site via Simister Lane.

6.0

The site is to be accessed directly from the main construction site. A notice board will be erected at the site entrance and will display the name of the site, the name address and telephone number of the operator and of the Waste Regulation Authority.

7.0

The current boundary fence extends for the entire perimeter of the site and consists of a mixture of post and wire, post and rail, chestnut paling, iron railing and hazelton hedge. The minimum height is one metre. This fencing will be maintained in good repair throughout waste disposal operations, it shall be inspected daily and any holes or damage repaired within one working day (24 hours) of being detected.

There will be no lighting equipment on site.

8.0

There are three types of material requiring disposal from the M66 Extension Site, which can be placed in the following categories :

1. General site rubbish - Offsite disposal to an appropriately licensed disposal facility.

8.3/cont .

2. Contaminated soils resulting from the removal of the Middleton Road Landfill site (MRLS) to facilitate the construction of the M66 - Disposal on site at RD/LIC/828/92 (IVALA) or offsite to an appropriately licensed disposal facility.
3. Excavated subsoil which are surplus to the construction requirements of the Contract.

Only category 3. materials will be placed in RD/LIC/1046/93. All this material is naturally occurring, previously undisturbed soil horizons, is inert and can be classified as soil contamination Class A. No additional material will be required to complete restoration.

The site investigation data on the proposed material is contained in Volume 9 Parts 1 to 4 of the Tender Document for M66 Manchester Outer Ring Road, Denton to Middleton, October 1992. This information is very bulky and is already in the possession of GMWRA through the IVALA (9RD/LIC/828/92) site information.

9.0

The site foreman shall be responsible for checking procedures for the material being received at the site. On a daily basis the foreman shall be informed of:

- i. The source of excavation
- ii. Material description
- iii. The class of material (in accordance with the Department of Transport Specification)

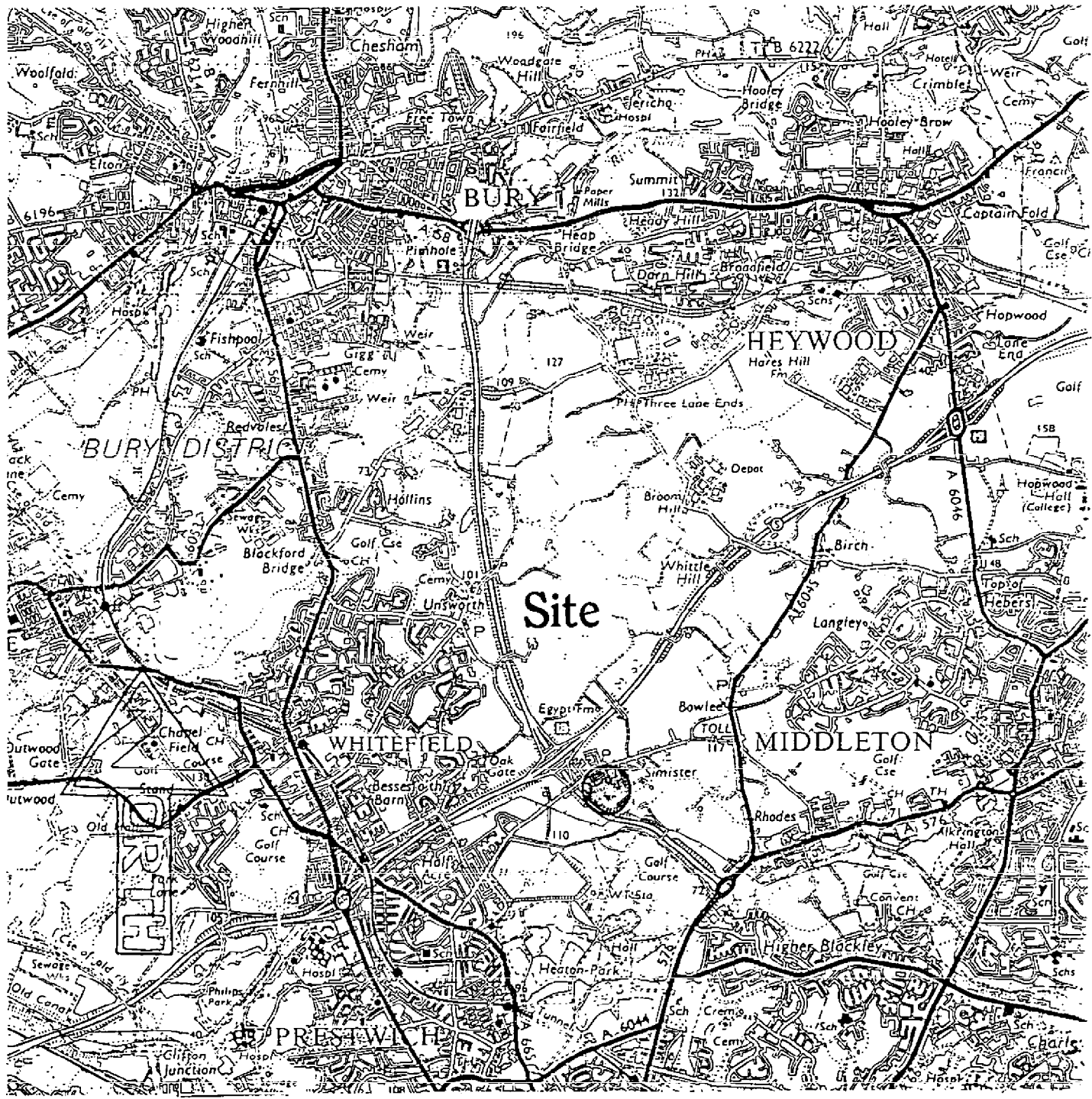
The foreman shall ensure by visual examination that the material delivered to site complies with the description given. Should different material be identified, then it shall be pushed to one side and stockpiled separately for classification by our Geotechnical Engineer and/or Waste Management officer. If the material is suspected to be anything other than soil contamination Class A, then it shall be immediately removed for further analysis.

The foreman shall keep a record of the number of truck loads of material deposited from each source on a daily basis. This record will be kept by the Earthworks Agent for our subcontractor Geo. Noblet Limited.

10.0

The maximum daily input to the site will be 2500 metres cubed. This quantity represents the output from a 40 tonne excavator working efficiently over a ten hour shift.

Regional Location Plan



Reproduced from the Ordnance Survey Map with the sanction of H.M. Stationery Office Under L

GREATER MANCHESTER WEST EURO CONST Simister



1046.
wml/1067
Bwy 1:2500

PP 30711/25



GREATER MANCHESTER WEST EURO CONST
Simister

wml/106A
BWA 1:2500



Sub Sta

BM 109.12

109.10

FARM LANE

Path (ump)

Pond

C96 Whitehouse Farm
(operational)

Whitehouse Farm

Baldryne Farm

Pond

104.5m

NUTT LANE

Nut Lar

Heywood Farm

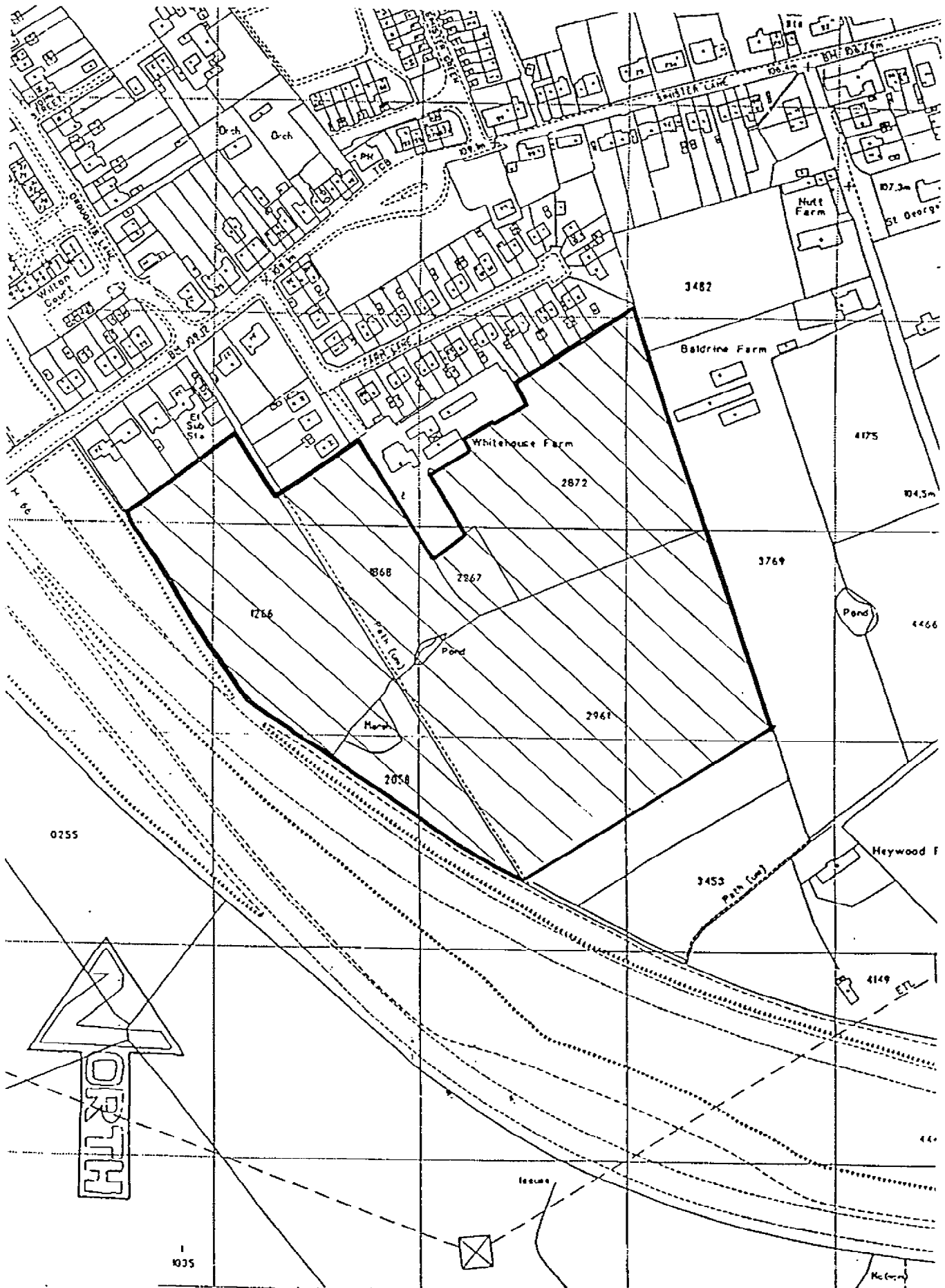
Path (ump)

RD/LIC/6046/93/P1

COSMAN ENGINEERING & CONSTRUCTION LIMITED

LAND TO THE SOUTH OF WHITEHOUSE FARM, SIMISTER PRESTWICH.

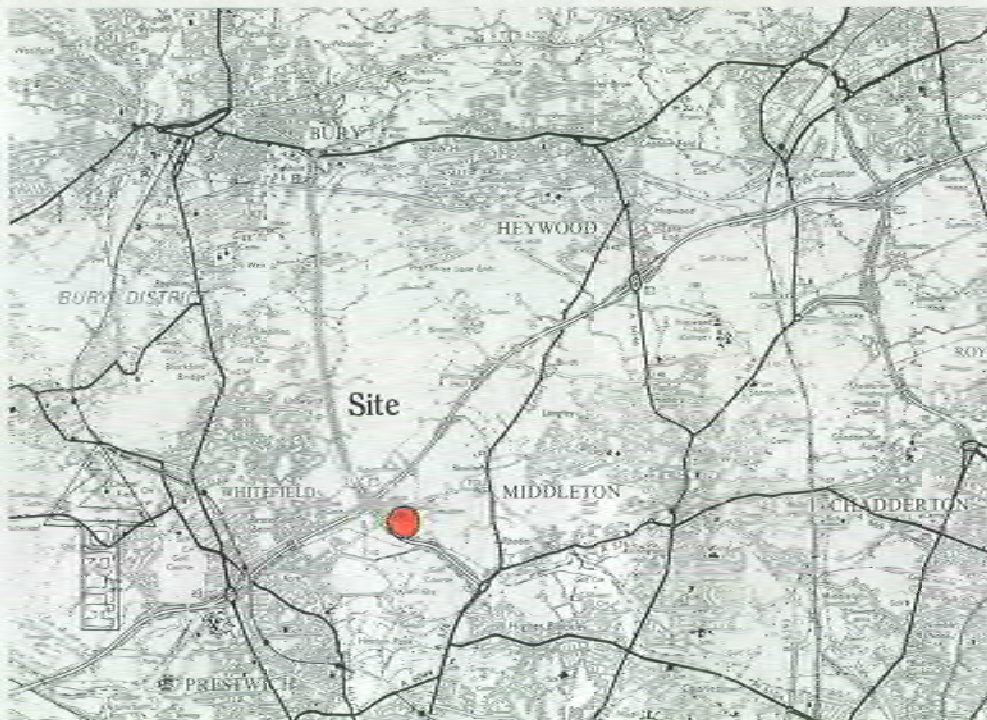
SCALE: 1:2500.



30711/95

Regional Location Plan

THGP 1



The
Hamilton Gee
PARTNERSHIP
CHARTERED SURVEYORS

Land to the south of Whitehouse Farm

Simister

Bury

Reproduced from the Ordnance Survey Map with the sanction of HM Stationery Office Under Licence No. 558117.

SCALE 1:50 000

30711/95

THGP 2

Site Plan

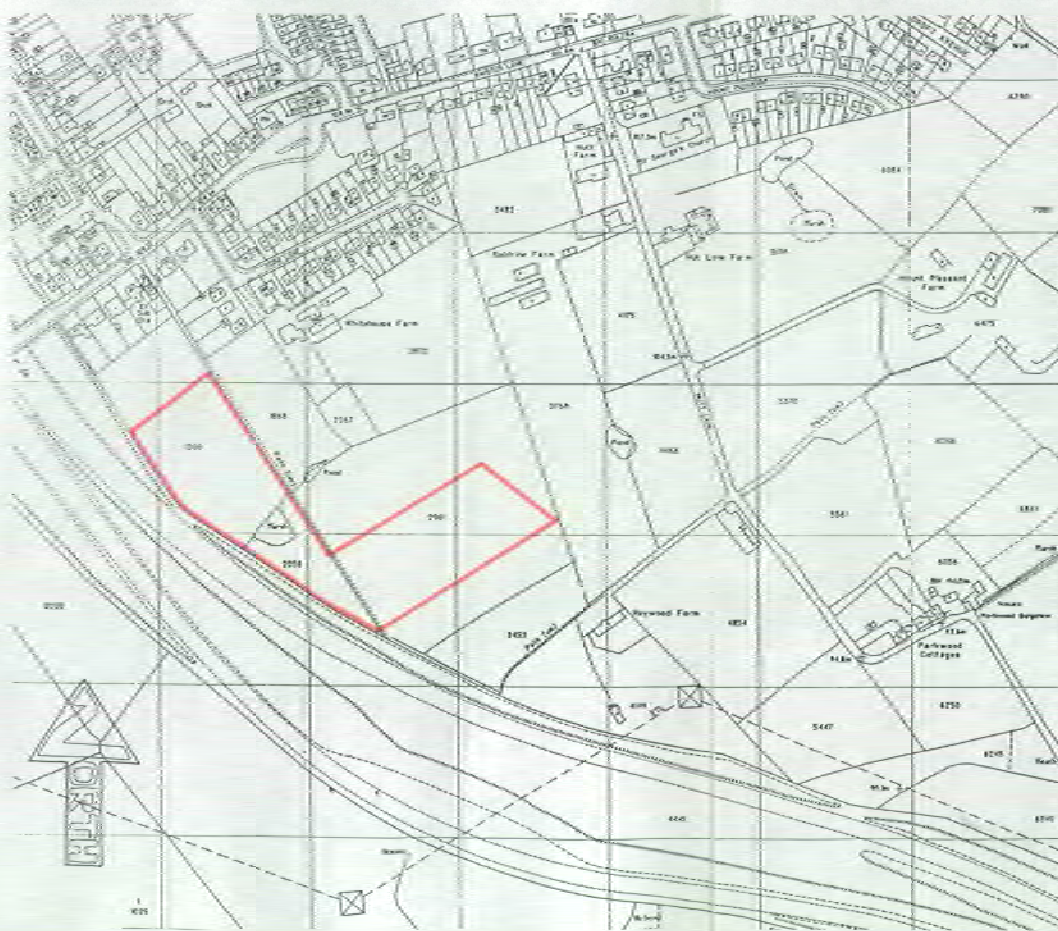
The
Hamilton Gee
PARTNERSHIP
CHARTERED SURVEYORS

Land to the south of Whitehouse Farm

Simister

Bury

SCALE 1:2500



Reproduced from the Ordnance Survey Map with the sanction of H.M. Stationery Office Under License No. 558117.

GREATER MANCHESTER WASTE REGULATION AUTHORITY

Acting Chief Waste Regulation Officer R D Clapton

6th Floor
Blackfriars House
Parsonage
Manchester
M3 2JA

Telephone Switchboard 061-832-2776 Carrier Registration (24 Hour) 061-834-6455 Fax Number 061-832-2917

Bury MBC
Housing & Environmental Services
Maple House
8 Haymarket Street
Bury
BL9 0AF

Your ref

Our ref

Ask for Stephen Barnes

Date 8 June 1994

For the attention of Mr Paul Williams

Dear Sir

Environmental Protection Act 1990 Waste Management Licence Application WML 1064

I enclose a copy of the application for the following site licence in accordance with Section 36 of the Environmental Protection Act 1990. My proposed conditions for the licence will be as given in Profile Licence PFILF1/REV2 subject to the listed insertions and amendments in the enclosed Profile Licence Amendments Form.

I have previously sent you a copy of the relevant Profile Licence, so that you may readily compare the site-specific amendments to those conditions given in the enclosed PLAF.

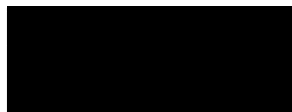
<u>Licence Number</u>	WML 1064
<u>Applicant</u>	Costain Engineering and Construction Limited
<u>Facility</u>	Inert Landfill (major)
<u>Location</u>	Land to the west of the M66 motorway, Simister, BURY

As you will be aware, there is a statutory period of 21 days for you to make your response. In order to allow for postal delivery, the period will be extended to 30 days from the date at the head of this letter.

If no response is received in this time, it will be assumed that you have no comments to make, and the application will be processed.

An extension to this period may be granted, providing that the request is made in writing, and reaches this office within the 21 day statutory period.

Yours faithfully



on behalf of the Chief Officer

Enc

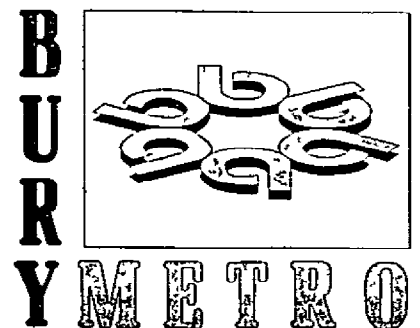
CON-1

**DEPARTMENT OF
DEVELOPMENT
SERVICES**

Craig House
5 Bank Street
Bury BL9 0DN
Tel 061-705 5000
Fax 061-705 5985

Notice of Planning Decision

This is an important document
Please keep it in a safe place



Town & Country Planning Act 1990

PLANNING PERMISSION

To

THE HAMILTON GEE PARTNERSHIP
ANDREW HOUSE
WIGAN LANE
WIGAN
WN1 2BN

On Behalf Of:

G NOBLET (PH) LTD/COSTAIN ENG & CON LTD
BRANDY HOUSE BROW
BLACKBURN
LANCASHIRE
BB2 3EY

PART I - Particulars of Application

Application Number 29539/94

Date of Registration 11/02/94

Proposal DEPOSIT OF OVERBURDEN WASTE FROM ADJACENT MOTORWAY
WORKS TO REGRADE AND IMPROVE THE QUALITY OF AGRICULTURAL
LAND

Location LAND TO WEST OF M66 MOTORWAY OFF BRIDLE ROAD SIMISTER

PART II - Particulars of Decision

The Bury Metropolitan Borough Council hereby give notice in pursuance of the provisions of the Town & Country Planning Act 1990 that **PERMISSION HAS BEEN GRANTED** for the carrying out of the development referred to in Part I hereof in accordance with the application and plans submitted subject to the following conditions -

- 1 The development must be begun not later than five years beginning with the date of this permission
- 2 The permitted development relates to the area shown edged red on Drawing No 29539/94 (THGP2) attached to and forming part of this permission
- 3 Tipping operations and all other associated works shall be completed in accordance with the details as indicated on Drawings Nos 29539/94 (THGP3A,4A,5A and 6A) and as described in the supporting statements including letters attached to and forming part of this permission
- 4 Tipping operations shall commence with the date of this permission and shall cease not later than 9 months from the commencement date Following the completion of the tipping operations, the restoration works, including the landscape, shall be completed within 6 months

(continued on attached sheet(s) if necessary)

Signed



On behalf of the Council

Date of Decision. 13th April 1994

- 5 Prior to the commencement of tipping operations or any associated works all available topsoil and subsoil shall be removed and stored at locations shown on 29539/94 (THGP6A)
- 6 All internal combustion engines or other machinery used in connection with the operation and maintenance of the site shall be equipped with effective silencing equipment in an efficient condition at all times, as may be reasonably appropriate to the satisfaction of the Local Planning Authority
- 7 All reasonable measures shall be taken to ensure that the operations on the site do not give rise to nuisance by virtue of dust or wind blown materials
- 8 The developer will ensure that the site is adequately fenced at all times during the carrying out of the permitted works and the fence, in the event of damage is repaired to the satisfaction of the Local Planning Authority
- 9 On completion of the tipping operations the final land formation of the site will be prepared in accordance with the details shown on the Drawing No 29539/94 (THGP5A) and any other associated document forming part of this permission
- 10 Prior to the work authorised by this permission all trees to be retained as shown on Drawing No 29539/94 (THGP3A & 4A) shall be fenced off with suitable means of protection to remain for the duration of the permitted works. The extent and details of these precautions shall be agreed on site with representatives of the Local Planning Authority before the permitted works commence

The Reasons for the Conditions are -

- 1 Required to be imposed by Section 91 of the Town & Country Planning Act 1990
- 2 For the avoidance of doubt
- 3 For the avoidance of doubt
- 4 For the avoidance of doubt
- 5 In the interest of proper site restoration
- 6 In the interest of the amenities of the area.
- 7 In the interests of the amenities of the area.

- 8 In the interest of the amenities of the area.
- 9 To ensure a satisfactory form of development
- 10 To avoid the loss of trees which are of amenity value to the area.

Please give name and address of agent dealing with licence application if any

The Hamilton Gee Partnership

Andrew House

Wigan Lane, Wigan

Post Code WN1 2BN

Tel No 0942 33836

Question 3 OPERATOR / OCCUPIER

Tick Box

Will the occupier or operator of the facility be different from the applicant?

YES

NO

If answer is "YES", please state the name and address of person or organisation who will operate facility For an organisation also give the name and position of the person who will be responsible for the daily management of the facility

Name George Noblet (Plant Hire) Limited

Address Brandy House Brow

Blackburn

Lancashire BB2 3EY

Person Responsible George Noblet Esq,

Please state the nature of the contractual relationship with the operator of the facility

Nature of Contractual Relationship Sub-Contractor to main contractor, Costain Construction & Engineering Limited

Question 4 LAND OWNERSHIP

Tick Box

Do you own the land on which the proposed waste disposal facility is to be situated?

YES

NO

If no, please give full details of arrangement entitling you to use the land eg, contract, lease (please give full details in case of joint or partial ownership)

A licence agreement to occupy the land has been negotiated with the land owners

Question 5 LOCATION

Please give address or location of the facility in sufficient detail for it to be readily identified

Land to the west of the M66 Motorway, Simister, Bury, Lancashire

Grid Reference
(8-figure)

S	D		8	3	4		0	5	4	
└──────────┘		└──────────────────────────┘					└──────────────────────────┘			
Map code		Eastings					Northings			

Question 6 TYPE OF FACILITY

Is the proposed facility a

Tick Box

- Containment Landfill - Clay-Lined
- Containment Landfill - Composite-Lined
- Inert Landfill
- Civic Amenity Site
- Transfer Station - Non-Special Wastes
- Transfer Station - Special Wastes
- Transfer Station - Clinical Wastes
- Transfer Station - Solvents
- Storage Facility - Bulk Liquid Wastes
- Treatment Plant - Chemical
(includes waste oil and waste solvent treatment/reclamation plant)
- Treatment Plant - Biological
(includes Sewage Treatment Plant)
- Treatment Plant - Physical
(includes baling plant, crushing plant, etc)
- Incinerator - Special Wastes
- Incinerator - Clinical Wastes
- Drum Reclaimer/Reconditioner
- Scrap Metal Dealer
- Refrigerants Store (gases)
- Other (please specify)

Question 7 PLANNING PERMISSION

Before a Waste Disposal Licence can be issued a valid Planning Permission for the facility must be granted and supplied to us Applicants who are unsure of the planning status of the facility are advised to contact their local Planning Authority on this matter as soon as possible

Planning Status

Tick Box

- a) Planning permission granted please enclose copy
- b) Planning permission applied for, date please enclose copy of form
- c) Planning permission to be applied for
- d) General Development Order Permission (specify which class)
- e) Established Use Certificate / Certificate of Lawful use please enclose copy

Any comments on planning status

Please enclose a copy of the plans submitted in support of the planning application with your application for a Waste Disposal Licence

Question 8 OPERATING HOURS

State proposed hours of operations, please use 24 hour clock

	Open for receipt / removal of waste		Operating Hours, if different	
	FROM	TO	FROM	TO
Monday to Friday	7.30 am	6.30 pm		
Saturday	7.30 am	1.30 pm		
Sunday				
Public Holidays				

Total number of operating hours per week 61

Question 9 CAPACITY OF FACILITY

Estimate the proposed maximum capacity of the facility Include details in your working plan of the storage capacity of any designated storage areas bays and containers

Landfill	-	volume of airspace (m ³)	=	85,000	m ³
Transfer station)				
Storage facility)	storage (m ³ or tonnes)	=		m ³ / tonnes
Treatment plant)	and			
Incinerator)	rate of use (tonnes)	=		day/week
Scrap metal dealer)				
Drum reclaimer	-	storage (number and size of drums)=			drums

Question 10 USEFUL LIFE OF FACILITY

Estimate useful life or remaining useful life of facility 12 months / years

QUESTION 11 START DATE

Give date use of facility is anticipated to commence At the earliest possible date - See appended correspondence
Please note that it is illegal to operate without a valid Waste Disposal Licence

QUESTION 12 USE OF LAND

What is the previous use of the land? Grazing Land

Give proposed final use of land (landfill sites only) Grazing Land

Give likely commencement date for such use Summer 1994

Question 13 ENVIRONMENTAL ASSESSMENT OF THE PROPOSAL - only necessary for certain facilities, refer to Environmental Assessment Regulations

Tick Box

Has an Environmental Impact Assessment been carried out for the proposed facility, in support of the Planning Permission Application ? YES
NO

If no, please state reasons why An Environmental Impact Assessment is not applicable to this application

If yes, please attach a copy

Question 14 ENVIRONMENTAL INVESTIGATION OF THE SITE- only necessary for certain facilities

A) SITE HYDROGEOLOGICAL INVESTIGATION

Has a Hydrogeological Investigation been carried out for the site of the proposed facility? Tick Box
YES
NO

If no, please state reasons why A Hydrogeological investigation is not applicable to this application

If yes, please attach a copy of the relevant report

B) BACKGROUND MONITORING

Has a programme of baseline environmental monitoring been developed for the site ? Tick Box
YES
NO

If no, please state reasons why

If yes, please attach details of the investigation and monitoring results obtained so far

QUESTION 15 WORKING PLAN

The Working Plan forms an **essential** component of a complete application. At least a first draft should be prepared and submitted before the application can be considered. The final draft of the Working Plan must be approved of in writing, by this Authority, before a licence can be issued.

So as to avoid unnecessary delay in the processing of the application you should read the General Guidance Notes on the Format and Content of the Working Plan that are attached to the back of this form, and then complete a Working Plan describing in detail the Subject Areas specific to your type of facility. These subject areas are described more fully in the guidance notes enclosed with this form.

The first draft Working Plan should be typewritten, with separate Annexes if appropriate, covering, in as much detail as practicable, the information listed in the Notes and the guidelines. It should bear the title 'Working Plan', the applicant and site details, draft number and date on the title page, and it should be signed. You should realise that the draft may have to be significantly revised to a second draft, to provide the relevant information required to condition a licence specification for your facility.

On receipt of the application, which consists of all the documents listed on page 8 of this form, the Authority will contact you for any further details that may be needed to process your application.

Tick Box

Has a first draft Working Plan been completed for the proposed facility?

YES
NO

YOUR APPLICATION CANNOT BE CONSIDERED UNTIL THE FIRST DRAFT OF YOUR WORKING PLAN, CLEARLY DETAILING ON SITE OPERATIONS HAS BEEN SUBMITTED

If a first draft Working Plan has not been completed, please give reasons

PLEASE NOTE A LICENCE WILL NOT BE ISSUED UNTIL THE WORKING PLAN IS AGREED BY THIS AUTHORITY AS CONTAINING SUFFICIENT INFORMATION AND BEING OF THE REQUIRED QUALITY TO ENSURE THAT THE PREPARATION AND OPERATION OF THE SITE WILL SATISFY THE LICENCE CONDITIONS

Question 16 WASTE TYPES

Please complete Appendix A, attached to the back of this form, giving the waste types the facility is intended to receive

NOTE Refer to table below before completing Appendix A. Waste types given in Appendix A, and are divided into 5 Groups for the purpose of licensing different types of waste disposal facilities. The table below gives a broad indication of the Waste Group(s) which each type of facility referred to in Question 6 are permitted to receive. It should be noted that only certain waste types within each Group may be permitted by the licence, depending upon the type of facility, and that the quantity of throughput of all wastes may be limited by the licence.

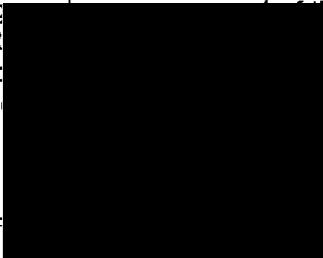
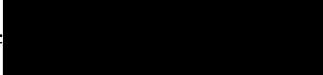
TYPE OF FACILITY	WASTE GROUPS				
	1	2	3	4	5
Containment Landfill - Clay-Lined					
Containment Landfill - Composite-Lined					
Inert Landfill					
Civic Amenity Site					
Transfer Station - Non-Special Wastes					
Transfer Station - Special Wastes					
Transfer Station - Clinical Wastes					
Transfer Station - Solvents					
Storage Facility					
Treatment Plant - Chemical					
Treatment Plant - Biological					
Treatment Plant - Physical					
Incinerator - Non-Special Wastes					
Incinerator - Special Wastes					
Incinerator - Clinical Wastes					
Drum Reclaimer/Reconditioner					
Scrap Metal Dealer					

NOTE Unshaded cell = Permitted Group, Shaded cell = Non-Permitted Group

DECLARATION

This section should be signed by the proposed Licence Holder

The details given in this application are to the best of my knowledge correct and I formally apply to the Waste Regulation Authority for a waste disposal licence for the above facility. I am aware that to provide false information or to make a statement in an application for a waste disposal licence is an offence under Section 5(6) of the Control of Pollution Act 1974.

SIGNED  DATE 8th February 1994
On behalf of  & Engineering Limited

NOTE

To complete the application you must send the following to the Greater Manchester Waste Regulation Authority, 6th Floor, Blackfriars House, Parsonage, Manchester M3 2JA

- | | | |
|-----|--|----------------|
| (a) | Completed Licence Application Form (including Appendix A) | 1 copy |
| (b) | Location Plan (scale 1 2500 or 1 10000, A3 or A4 size) | 1 copy |
| (c) | Diagram of layout of the facility, (access, treatment and processing areas, etc) | 3 copies |
| (d) | Site Boundary Plan (to scale, A3 or A4 size, showing boundary of site in accordance with Planning Application or Consent, and in relation to surrounding features) | 3 copies |
| (e) | Planning Permission, and plans submitted in support of planning application | 1 copy of each |
| (f) | Working Plan | 2 copies |
| (g) | Petroleum Licence (for storing flammable substances) | 1 copy |
| (h) | Fire Authority Approval (if required) | 1 copy |
| (i) | Environmental Assessment Report (if carried out) | 1 copy |
| (j) | Site Hydrogeological Investigation Report (if carried out) | 1 copy |
| (k) | Consent to Discharge to drains, sewers, or watercourses, from NRA or NWW | 1 copy |

FOR OFFICIAL USE ONLY

Date Application received 22/2/94

- | | | |
|-----|--|--------|
| (A) | Application Form complete | YES/NO |
| (B) | All required documents and plans enclosed | YES/NO |
| (C) | If 'NO' to either (A) or (B), state missing information required | |

- (D) Date Acknowledgement Letter sent, enclosing further guidance, if required

Officer Name STEVE BARNES

Signature 

Date

23 2 94

APPENDIX A

INTENDED WASTES FOR DISPOSAL

NOTE REFER TO QUESTION 16 BEFORE COMPLETING THIS SECTION
ESTIMATED MAXIMUM TOTAL DAILY INPUT OF WASTES (TONNES/DAY)

WASTE GROUP	ESTIMATED MAXIMUM DAILY INTAKE (TONNES/DAY)
GROUP 1	5000
GROUP 2	
GROUP 3	
GROUP 4	
GROUP 5	
TOTAL	5000

GROUP 1 WASTE TYPES	TICK BOX
SOIL CLASS A (UNCONTAMINATED SOIL)	✓
UNCONTAMINATED RUBBLE/HARDCORE	
STONE	
CLAY	✓
SAND (EXCEPT FOUNDRY SAND)	✓
SILICA, CARBON, KIESELGUHR (EXCEPT WHERE USED AS FILTER MATERIAL)	
GLASS, POTTERY, CHINA, FIRED ENAMELS, CERAMICS, MICA	
BRICKWORK	
CONCRETE	
BOILER SCALE	
SLAG/ASH/CLINKER	
WEATHERED TAR/BITUMEN AGGREGATE	
MINERAL PROCESSING WASTES	
MIXED WASTES (GROUP 1) (as follows)	
MIXED PERMITTED WASTE TYPES FROM GROUP 1 ONLY	

GROUP 2 WASTE TYPES	TICK BOX
WOOD - TREATED TIMBER	
WOOD - UNTREATED TIMBER	
WOOD PRODUCTS - HARDBOARD, CHIPBOARD	
SAWDUST/SANDERDUST	
TREES, BUSHES, TREE/HEDGE CUTTINGS	
PAPER, INCLUDING OILED/TARRED PAPER	
CARDBOARD, FIBREBOARD	
CORK, EBONITE, KAPOK	
PLASTIC	
TANNED LEATHER	
TEXTILES/FIBRES - NATURAL OR MAN-MADE	
CEMENT (EXCEPT AS CONSTITUENT OF BRICKWORK OR CONCRETE)	
CONTAMINATED WASTES (GROUP 2) (as follows)	
WASTE TYPES OTHERWISE PERMITTED FROM GROUP 1 OR GROUP 4 WITH CONTAMINATION LEVELS EXCEEDING THOSE SPECIFIED FOR SOIL CLASS A IN ANNEX B BUT WITHIN THOSE SPECIFIED FOR SOIL CLASS B	
(Continued)	

GROUP 2 WASTE TYPES	TICK BOX
CONTAMINATED SOIL (as follows)	
SOIL CLASS B (SLIGHTLY CONTAMINATED SOIL)	
MIXED WASTES (GROUP 2) (as follows)	
MIXED PERMITTED WASTE TYPES FROM GROUP 2 ONLY	
MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND 2	

GROUP 3 WASTE TYPES	TICK BOX
HOUSEHOLD REFUSE - TREATED OR UNTREATED	
COMMERCIAL REFUSE (CONSISTING OF PAPER, CARDBOARD, PLASTIC, WOOD)	
EMPTY USED CONTAINERS (CONSTRUCTED OF METAL, GLASS, PLASTIC, PAPER, CARDBOARD, WOOD, ETC)	
SCRAP MACHINERY/EQUIPMENT - FERROUS	
SCRAP MACHINERY/EQUIPMENT - NON-FERROUS	
ELECTRICAL FITTINGS/FIXTURES/APPLIANCES	
VEGETABLE MATTER (OTHER THAN TREES, BUSHES, TREE/HEDGE CLIPPINGS)	
WASTE FOOD OR FOOD PROCESSING MATERIALS	
ANIMAL CARCASSES OR PARTS THEREOF	
CLINICAL WASTE - TREATED OR UNTREATED	
RUBBER (INCLUDING TYRES)	
SOAP	
DETERGENTS	
COSMETIC PRODUCTS - RETAIL ONLY	
DRY SEWAGE SLUDGE	
INCINERATOR RESIDUE	
FOUNDRY SAND	
PLASTER	
PLASTERBOARD	
CONTAMINATED WASTES (GROUP 3) (as follows)	
WASTE TYPES OTHERWISE PERMITTED FROM GROUP 1, GROUP 2 OR GROUP 4 WITH CONTAMINATION LEVELS EXCEEDING THOSE SPECIFIED IN ANNEX B FOR SOIL CLASS B, BUT WITHIN THOSE FOR SOIL CLASS C	
CONTAMINATED SOIL (as follows)	
SOIL CLASS C (CONTAMINATED SOIL)	
MIXED WASTES (GROUP 3) (as follows)	
MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND/OR GROUP 2 AND/OR GROUP 3	
MIXED PERMITTED WASTE TYPES FROM GROUP 3 ONLY	

GROUP 4 WASTE TYPES	TICK BOX
ASBESTOS LAGGING - ALL FORMS	
ASBESTOS FIBRE/POWDER	
ASBESTOS SHEET/PIPING, COMPOSITE/BONDED	
MIXED WASTES (GROUP 4) (as follows)	
MIXED PERMITTED WASTE TYPES FROM GROUP 4 ONLY	
MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND/OR GROUP 2 AND/OR GROUP 3 AND GROUP 4	

GROUP 5 WASTE TYPES	SOLID (TICK BOX)	SLUDGE (TICK BOX)	LIQUID (TICK BOX)
INORGANIC ACIDS			
ORGANIC ACIDS AND RELATED COMPOUNDS			
<u>ALKALIS</u>			
HYDROXIDES OF SODIUM, POTASSIUM OR CALCIUM			
OXIDES OF SODIUM, POTASSIUM OR CALCIUM			
CARBONATES OF SODIUM, POTASSIUM OR CALCIUM			
AMMONIA			
PROPRIETARY ALKALINE CLEANERS			
ALKALI METAL PHOSPHATES			
<u>METALS AND INORGANIC METAL COMPOUNDS</u>			
ALUMINIUM			
ALUMINIUM COMPOUNDS			
BARIUM AND BARIUM COMPOUNDS			
BERYLLIUM AND BERYLLIUM COMPOUNDS			
BORON AND BORON COMPOUNDS			
CADMIUM AND CADMIUM COMPOUNDS			
CALCIUM AND CALCIUM COMPOUNDS			
CHROMIUM			
CHROMIUM COMPOUNDS			
COBALT AND COBALT COMPOUNDS			
COPPER			
COPPER COMPOUNDS			
IRON AND IRON COMPOUNDS			
LEAD AND LEAD COMPOUNDS			
MAGNESIUM AND MAGNESIUM COMPOUNDS			
MERCURY AND MERCURY COMPOUNDS			
MOLYBDENUM AND MOLYBDENUM COMPOUNDS			
NICKEL AND NICKEL COMPOUNDS			
OSMIUM AND OSMIUM COMPOUNDS			
PHOSPHORUS			
PHOSPHORUS COMPOUNDS			
POTASSIUM AND POTASSIUM COMPOUNDS			
SILVER AND SILVER COMPOUNDS			
SODIUM			
SODIUM COMPOUNDS			
THALLIUM AND THALLIUM COMPOUNDS			
TIN AND TIN COMPOUNDS			
TITANIUM AND TITANIUM COMPOUNDS			
TUNGSTEN AND TUNGSTEN COMPOUNDS			
ZINC AND ZINC COMPOUNDS			
ZIRCONIUM AND ZIRCONIUM COMPOUNDS			
<u>METALLOID ELEMENTS AND COMPOUNDS</u>			
ANTIMONY AND ANTIMONY COMPOUNDS			
ARSENIC AND ARSENIC COMPOUNDS			
BISMUTH AND BISMUTH COMPOUNDS			
SELENIUM AND SELENIUM COMPOUNDS			
TELLURIUM AND TELLURIUM COMPOUNDS			
(Continued)			

GROUP 5 WASTE TYPES	SOLID (TICK BOX)	SLUDGE (TICK BOX)	LIQUID (TICK BOX)
<u>ORGANIC COMPOUNDS</u>			
ORGANOHALOGEN COMPOUNDS			
ORGANO-METALLIC COMPOUNDS			
ORGANO-NITROGEN COMPOUNDS			
ORGANO-SULPHUR COMPOUNDS			
ORGANO-PHOSPHORUS COMPOUNDS			
PHENOLS ANALOGUES AND DERIVATIVES			
PEROXIDES			
CHELATING COMPOUNDS			
PTHALATES			
SOLVENTS			
THINNERS			
MIXED SOLVENTS AND THINNERS			
PETROL, KEROSENE, DERV, FUEL OIL			
MINERAL OIL			
FATS AND GREASES			
<u>OTHER COMPOUNDS (INORGANIC OR ORGANIC)</u>			
CYANIDES (ALL TYPES)			
SULPHIDES			
SELENIDES			
TELLURIDES			
ARSENIDES			
OXIDISING COMPOUNDS			
CARBIDES AND ACETYLIDES			
<u>POLYMERIC MATERIALS</u>			
PRECURSORS, MONOMERS AND PRODUCTS OF INCOMPLETE POLYMERISATION			
FINISHED PRODUCTS AND MANUFACTURING SCRAPS			
SCRAP RUBBER (EXCLUDING TYRES)			
LATEX LATEX/RUBBER SOLUTIONS/SUSPENSIONS			
SYNTHETIC ADHESIVE WASTES			
ION EXCHANGE RESIN WASTES			
<u>FINE CHEMICALS</u>			
PHARMACEUTICALS			
COSMETIC PRODUCTS			
<u>BIOCIDES, ETC</u>			
BIOCIDES			
PESTICIDES			
HERBICIDES			
FUNGICIDES			
<u>MISCELLANEOUS CHEMICAL WASTES</u>			
MIXED ORGANIC COMPOUNDS			
MIXED INORGANIC COMPOUNDS			
LABORATORY CHEMICALS			
UNIDENTIFIED CHEMICALS			
ORGANICS IDENTIFIED BY TRADE NAME ONLY			
INORGANICS IDENTIFIED BY TRADE NAME ONLY			
(Continued)			

GROUP 5 WASTE TYPES	SOLID (TICK BOX)	SLUDGE (TICK BOX)	LIQUID (TICK BOX)
<u>FILTER MATERIALS, CONTAMINATED RUBBISH AND TREATMENT SLUDGE</u>			
USED FILTER MATERIALS (INCLUDING CARBON, KIESELGUHR)			
CONTAMINATED RUBBISH (BAGS, SACKS, CONTAINERS)			
PCB CONTAMINATED ITEMS			
INDUSTRIAL EFFLUENT TREATMENT SLUDGE			
FILTER SCREENINGS			
<u>INTERCEPTOR WASTES, TARS, PAINTS, DYES AND PIGMENTS</u>			
TANK CLEANING SLUDGE			
INTERCEPTOR PIT WASTES			
PRINTING INDUSTRY WASTES (INK MANUFACTURE/USE)			
PAINT/VARNISH WASTES (MANUFACTURE/USE)			
DYESTUFFS WASTE			
DISTILLATION RESIDUES			
TAR, PITCH, BITUMEN AND ASPHALTS (EXCEPT AS WEATHERED TAR/BITUMEN AGGREGATE)			
ACID TARS			
ANY OTHER COMPOUNDS please specify here			
<u>CONTAMINATED WASTES (GROUP 5) (as follows)</u> WASTE TYPES OTHERWISE PERMITTED FROM GROUPS 1 TO 5 WITH CONTAMINATION LEVELS EXCEEDING THOSE SPECIFIED IN ANNEX B FOR SOIL CLASS C, BUT WITHIN THOSE SPECIFIED FOR SOIL CLASS D			
<u>CONTAMINATED SOILS (as follows)</u>			
SOIL CLASS D (HEAVILY CONTAMINATED SOIL)			
SOIL CLASS E (UNUSUALLY HEAVILY CONTAMINATED SOIL)			
<u>MIXED WASTES (GROUP 5)</u>			
MIXED PERMITTED WASTE TYPES FROM GROUP 5 ONLY			
MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND/OR GROUP 2 AND/OR GROUP 3 AND/OR GROUP 4 AND GROUP 5			

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1 - 2	1.00.	Introduction
3 - 4	2 00	The Application Site
5 - 6	3.00.	Planning History and Justification
7 - 9	4 00.	Catchment Area and Analysis of Materials
10 - 16	5.00.	Method Of Working and Reclamation
17 - 20	6 00.	Landform and Landscaping
		Appendix A
		Appendix B

TOWN AND COUNTRY PLANNING ACT 1990
CONTROL OF POLLUTION ACT 1974

An application seeking planning permission and a site licence to operate a landfill site to dispose of overburden materials, including soil, sub-soil and similar to enable the formation of improved field contours to be achieved

LAND TO THE WEST OF M66 MOTORWAY

SIMISTER

BURY

On behalf of

COSTAIN ENGINEERING AND CONSTRUCTION LIMITED

and

GEORGE NOBLET (PLANT HIRE) LIMITED

1 00 INTRODUCTION:

1 01 The Applicants, for the benefit of the planning permission are Costain Engineering and Construction Limited, (the Contractor) and George Noblet (Plant Hire) Limited, (the Operator)

1 02 The Applicants have reached agreement with the owner of the Application Site to enable the work required, as proposed in this Application, to be undertaken and have served the appropriate notice's thereon

1 03 For the purpose of the site licence application the Applicant will be the Contractor for the purpose of question 1 on the waste disposal application form, whilst the Operator will be the party responsible for the daily site management

- 1 04 The Operator has over 30 years experience in excavating and bulk earth moving. During this time they have acted in the capacity as both main and sub-contractor's on numerous reclamation works undertaken throughout the North West and have worked on this basis on many occasions where major public works contracts have been involved. They have also undertaken similar work for many of the local authorities throughout the North West.
- 1 05 It would be the intention of both the Contractor and the Operator to utilise this site for the deposit of inert fill materials generated exclusively from major engineering works associated with the extension currently being undertaken on the M66 Motorway road widening scheme.
- 1 06 The purpose of this joint application is to enable inert materials, including soil, sub-soil and similar overburden to be imported on to the site, as described in this Working Plan Explanatory Statement and appended plans.
- 1 07 By permitting this application the owners of the Application Site envisage an opportunity to benefit the land from improved contours that will marry in with the adjoining landscape, in particular on the western boundary whilst at the same time softening the impact of the existing embankment boundary with the motorway.
- 1 08 The proposed finished contours will create a landscape that has both improved drainage and an enhanced soil structure that will ultimately enable a better grassland finish to be established than presently exists.
- 1 09 A set of plans indicating the existing and proposed finished contours and method of working are appended to this Statement.
- 1 10 Applications have been made to both Bury Metropolitan Borough Council as Planning Authority under the Town & Country Planning Act 1990 and to Greater Manchester Council, as Waste Regulation Authority for this area, seeking a site licence, as required under the Control of Pollution Act 1974 Part I, Waste on Land, to permit the operation proposed herein on this site.

2.00. THE APPLICATION SITE.

- 2 01 The Application Site is situated on the northern periphery of the urban area of north Manchester and to the west of that area known as Simister, to the east is the urban area of Middleton whilst the centre of Bury is 5.5 kilometres (3.40 miles) to the north west - see Plan **THGP 1**.
- 2 02 The site, together with the surrounding agricultural land, is classified as being Grade 3 on the Agricultural Classification Map. The subject property, together with the surrounding farm land to the north and east is mostly down to permanent grassland of indifferent quality. A detailed analysis of the land has led us to the opinion that a Class 4 designation is more appropriate.
- 2 03 The site contains a total area of 1.67 hectares (4.12 acres) or thereabouts including the ancillary areas and proposed temporary haul roads and is as defined in detail on Plan **THGP 2**.
- 2 04 The Application Site lies within an area allocated on the approved Greater Manchester Green Belt Local Plan as being within the green belt.
- 2 05 The area to the immediate south of the Application Site forms Heaton Park Golf Course which is screened from the site by both the general contours of the land which rise upwards at this point towards the site and an established belt of trees on the southerly boundary of the Application Site.
- 2 06 **Geology.**
- 2 06 01 The proposed tip site is located on the alluvial plain of a minor stream which is flowing from east to west across the site. Boreholes on the M66 Motorway indicate only very thin alluvium (approximately 1.0m) overlaying glacial strata. The glacial strata are predominantly cohesive, described as firm to stiff orange brown mottled silty clay in the top 3 metres. Below this the glacial till comprises interbedded sand, silt and clay to rockhead which is not proven but shown to be at considerable depth.

- 2 06 02 Various trial pits and boreholes have been completed for the design and construction of the M66, adjacent to the landfill site. These indicate glacial strata to considerable depth, proven to 26 metres in boreholes for the Simister Lane Bridge.

- 2 06 03 The glacial strata comprise predominantly of cohesive soils which are typically very stiff brown sandy or very silty clay with occasional gravel.

- 2 06 04 Due to the cohesive soils at and immediately below ground level, the ground water table is close to ground level.

3.00 PLANNING HISTORY AND JUSTIFICATION:

3 01 It is clear from an on site inspection that the Application Site is mostly of indifferent quality agricultural land and is generally poor

3 02 This application proposes that planning consent be approved for the importation of inert fill from the adjoining motorway construction works This will enable the existing contours to be improved and through an enhanced system of drainage and landscaping a better landform finish than exists at the present to be created

3 03 It is intended that operations, once commenced, should be pursued on a "once and for all" basis

3 04 The constraints of the main contract for the improvement works being undertaken on the motorway are such that the western carriageway of the M66 at this point will be closed from approximately late summer 1994 and will remain so until circa early 1995 This will allow direct access from the construction site to be gained from the area where the fill materials will originate into the proposed landfill site

3 05 This has significant environmental advantages in that the number of vehicles needing to travel on the public highway will be reduced to nil In addition, there will be substantial reductions in the fuel that would otherwise be consumed again with attendant environmental benefits

3 05 01 For the avoidance of doubt there is no requirement to use the Public Highway network within the vicinity of this site both during the proposed currency of operation or at any time thereafter

3 06 The proposals are that the top-soil and suitable sub-soils will be stripped and stockpiled in that area defined on Plans THGP 3 & 5

- 3 07 A cut will be formed on the western boundary of the Motorway to allow access to the site at a lower level than currently exists which again will have the benefits of noise attenuation and visual screening for those properties to the east in the village of Simister
- 3 08 We are of the opinion that these proposals do not impact on the purpose of Green Belt policy as defined in the approved Structure Plan at Policy OL2
- 3 09 Whilst not a waste disposal operation in the strictest sense of that term it nonetheless fulfils the criteria for waste disposal sites as defined in Policy WD2 of the approved Structure Plan
- 3 10 As stated above both a planning application and a site licence application have been submitted to the appropriate authorities seeking consent for the works described herein and as described in detail at **Appendices A & B** below

4.00. CATCHMENT AREA AND ANALYSIS OF MATERIALS:

- 4 01 The site operations will be undertaken by a reputable company of long standing who have extensive knowledge of bulk earth moving and reinstatement works
- 4 02 The source of fill materials are the construction works on the adjoining motorway extension and will be strictly controlled as to both type and condition
- 4 03 As stated above, the importation of fill materials will be as a result of engineering operations and construction works being awarded to the Operator and the site will be operated on a "once and for all" basis
- 4 04 The landfill facility will not be available to third parties, it will be for the sole use of the Operator No third party or "off-site" imported waste will be brought to the site
- 4 05 The Operator will manage the site on a day to day basis - see Section 5 00 below
- 4 06 Based upon the knowledge of the Operator and the relationship with the source of fill materials available it is estimated that importation of materials will continue for a maximum period of six months
- 4 07 Allowing an extra period for site establishment, clearance of ancillary works etc and the final reinstatement of the land it is envisaged that the on site operations from start to finish should be completed within a maximum period of 12 months
- 4 08 The materials that it is anticipated will be delivered to site will include typical site strip materials, i.e soil, sub-soil, together with clays and sand and other overburden materials

- 4 09 All these materials will be inert in nature and no contaminated waste will be permitted to be deposited on the site
- 4 10 Because of the strict degree of control that will be exercised even before the site operations begin and the known point of arisings for the fill materials the Applicants are confident that no risk of contaminated material being brought to site, let alone deposited thereon need realistically be contemplated
- 4 11 There are three types of material requiring disposal from the M66 Extension Site, which can be placed in the following categories
- 1) General site rubbish - Off-site disposal to an appropriately licensed disposal facility
 - 2) Contaminated soils resulting from the removal of the former Middleton Road Landfill site (MRLS) to facilitate the construction of the M66 - Disposal on site at RD/LIC/828/92 (IVALA) or off-site to an appropriately licensed disposal facility
 - 3) Excavated subsoils which are surplus to the construction requirements of the Contract
- 4 12 Only category 3 materials above will be placed in this proposed site All this materials is naturally occurring, previously undisturbed soil horizons, is inert and can be classified as soil contamination Class A No additional material will be required to complete restoration
- 4 13 The site investigation data on the proposed material is contained in Volume 9 Parts 1 to 4 of the Tender Document for M66 Manchester Outer Ring Road, Denton to Middleton, October 1992 This information is extremely comprehensive and is already in the possession of Greater Manchester Waste Regulation Authority through the IVALA (RD/LIC/828/92) site information

4 14 For further details on the precise volume of fill and the expected rate of landfill see Section 5 00 below

5 00 METHOD OF WORKING AND RECLAMATION:

5 01 The detail with regard to the method of working and reclamation is more particularly described below and will be in the sequence as indicated on the appended plans and drawings accompanying this Working Plan Explanatory Statement

5 02 The access onto the site will be directly from the M66 eastern carriageway a previously public and adopted highway However, for the period of these proposals this section of the carriageway will be closed to public access, whilst major works of reconstruction are undertaken

5 03 The proposals for the site are deemed sufficient to secure it from trespass of a vehicular nature and the boundaries, easily identifiable on the ground, are such that the existing boundary fences are also considered appropriate for the security of the operations to be undertaken

5 03 01 The boundary fence extends for the southern and eastern perimeters of the site and consists of a mixture of post and wire, and post and rail fencing A temporary post and wire fence will be erected across the full extent of the presently unfenced western boundary

5 03 02 The minimum height of this fencing will be 1m

5 03 03 This fencing will be maintained in good repair throughout the period of landfill operations, and it will be inspected daily and any damage repaired within one working day of being detected

5 04 We are not aware of any public footpaths or bridleways crossing the site However, should there be such then the necessary steps will be taken to effect a temporary diversion or closure thereof

5 05 The support facilities of offices and stores together with a secure compound for vehicle storage and maintenance and associated hard standing for car parking will be available for the duration of these

operations on the adjoining motorway construction area. In addition, further facilities are available at the main compound occupied by Costain Engineering and Construction Limited

5 06 All vehicle movements will ultimately be controlled from the Costain office complex which is situated to the south east of that area known as the Middleton roundabout

5 07 The maintenance of earth moving machinery and other ancillary plant will be provided for outside the application site in that area referred to at 5 05 above

5 08 No provision for the storage of diesel fuel on the application site will be made, such facilities having already been provided in that area referred to at 5 05 above

5 09 The site will be adequately manned during the period of operation. The level of staffing being as follows

1 no Site Foreman

1 no Employee involved in earth moving machine operations

5 09 01 The site foreman shall be responsible for checking procedures for the material being received at the site. On a daily basis the foreman shall be informed of

i The source of excavation

ii Material description

iii The class of material (in accordance with the Department of Transport Specification)

5 09 02 The foreman shall ensure by visual examination that the material delivered to site complies with the description given. Should different material be identified, then it shall be pushed to one side and stockpiled separately for classification by the Company Geotechnical Engineer and/or Waste Management officer. If the

material is suspected to be anything other than soil contamination Class A, then it shall be immediately removed for further analysis

5 09 03 The foreman shall keep a record of the number of truck loads of material deposited from each source on a daily basis This record will be kept by the Earthworks Agent for the sub-contractor George Noblet (Plant Hire) Limited

5 10 This level of staffing is considered to be appropriate for the nature of operations proposed and is based upon similar requirements for sites that have operated at the proposed levels of input envisaged However, should there be any significant demand for additional material to be imported then, if considered essential, the level of staffing can be readily increased

5 11 The level of staffing is based on the level of importation as outlined at 5 21 below Should, however, this differ significantly then obviously adjustments would have to be made thereto

5 12 The hours of operation are to be as follows
Monday to Friday 7 30 a m to 6 30 p m
Saturday 7 30 a m to 1 30 p m
Sundays and Bank Holidays - no working except in emergency situations

5 13 Plant and equipment repair may take place outside the above hours as circumstances dictate but would be in accordance with the Council's policies in respect thereof and in any case will be undertaken away from the Application Site

5 14 The plant and equipment to be used will be as follows
1 no Komatsu 85E or Cat D7 Bulldozer

5 14 01 The Operator utilises modern plant and equipment incorporating the latest noise attenuation materials, silencers and/or "hush kits"

5 14 02 The regular maintenance of plant and machinery, to avoid worn or broken parts, is a part of the Operators existing operational policy

5 14 03 All material deliveries to the site will be by 25 or 30 tonne 'Terrex' dump trucks. Due to the inert nature and damp condition of these natural materials it is not envisaged that the trucks will require to be sheeted. In the event that this proves not to be the case then clearly sheeting will be provided.

5 15 The method of deposit for the approved landfill materials will be as follows

- a) After authorisation from the 'site office' waste will be directed to the working face initially by the Site Foreman and then by a series of temporary internal site haul roads. These roads will, of necessity, follow the working face.
- b) The waste will be deposited, working from west to west, over the working face from the delivery vehicles being finally placed and compacted by a tracked machine.
- c) Layers of waste will not exceed 2.5m in depth.
- d) The working face and flanks shall not exceed a gradient of 1:3.
- e) The method of the operation when combined with the nature of material deposited, compaction and layering, will be such that the accumulation of voids will be reduced to a minimum.
- f) Each layer of material and covering shall be laid to fall to encourage surface water run-off.
- g) In the unlikely event of any loose waste being deposited this will be collected at least once a week and disposed of in such a way as to keep the site tidy.

- h) No fires will be allowed on site
 - i) Precautions will be taken to deal with any vermin and insects that may be attracted to the site although this is considered unlikely due to the inert nature of the materials it is proposed to import
 - j) Detailed records will be kept of the types and quantities of material deposited
 - k) Adequate provision for the control of weeds will be taken until such time as the land is finally restored
 - l) Site roads will be sprayed with water during periods of dry weather to suppress dust
 - m) The final layer, i.e. the last metre, shall be composed of materials which will not interfere with the final restoration
 - n) After the final layer and covering have been deposited then a period of two months will be allowed to pass to enable the site to settle before the top soil is spread over the area
- 5 16 A site identification board manufactured of durable materials listing the names, addresses and telephone numbers of both the site operator and the Licensing Authority will be displayed adjacent to the immediate site entrance to the Application Site
- 5 17 On completion of fill operations the whole of the area will be graded to create the final contours of the landform as shown on the Proposed Landform and Sections Plan
- 5 18 The access point, any temporary fencing and other temporary facilities and structures will be removed and the area made tidy upon completion of landfill operations and the land restored to agricultural use
- 5 19 On completion of the landfill operations the area will be graded and seeded
- see Section 6 00 below

5 20 The expected volumes of fill imported into the reclaimed area and other information data are presented below

5 21 The cubic content of the site is approximately 78,000 cubic metres (102,631 yards) The fill received at the site will be delivered in large dump trucks having payload capacities of between 25 and 30 tonnes

5 22 Assuming an average cubic capacity for each load delivered of 10 cubic metres it can be calculated that 7,800 loads will be required to create the finished landform proposed Allowing for a figure of settlement of 5% then the foregoing figure should be increased to one of 8190 loads It is envisaged that on average 40 loads of fill will be deposited on the site each day

5 22 01 The maximum daily input to the site will be 2500 cubic metres This quantity represents the output from a 40 tonne excavator working efficiently over a 10 hour shift Clearly, this represents a maximum achievable figure and, in practice, it is unlikely that this will be attained on a sustained basis

5 23 Accordingly, it can be seen that the phase for infilling will last for a maximum of 38 weeks

5 24 Allowing an extra period for the preparation and restoration work the total expected life of the operation would be circa 12 months

5 25 **Ground Water Monitoring**

5 25 01 Water does not accumulate on any part of the site and it is not considered either appropriate or beneficial to monitor this site in that regard

5 25 02 This view is further enhanced by virtue of the inert nature of the materials it is proposed be deposited on the site and the strict control that will be exercised over the input thereto and known point of origin thereof

5.26. Landfill Gas

- 5 26 01 After appraisal of the extensive geotechnical information relating to the proposed disposal site and of the source and nature of the material to be imported, there appears to be little risk of a landfill gas problem
- 5 26 02 Consequently, we propose a sub surface monitoring survey of the site with measurements at points 5m in from the boundary, at 25m intervals along the perimeter of the site This will be undertaken prior to works commencing to give a background baseline, immediately on completion of landscaping works and should significant landfill gas be detected, at 6 monthly intervals until measurements drop to an acceptable level, in accordance with Section 7 9 a) of Waste Management Paper No 27 (Second Edition)
- 5 26 03 The sub surface monitoring will be in accordance with Section 7 31 of Waste Management Paper No 27 (Second Edition) and will be undertaken by an independent consultancy

6 00. LANDFORM AND LANDSCAPING

6 01 The proposed finished landform and landscaping will be as shown on the Proposed Landform Plan and on the appended Sections Plan

6 02 The landscaping proposals are designed to

- a) Produce at the earliest date after the completion of landfilling an area of land suitably contoured to harmonise with the immediate environs
- b) Ultimately produce, when the area has had time to regenerate and become established, an attractive landscape that will improve on the existing contours and create an improved drainage regime to the benefit of the land

6 03 The final level and contouring of the site will be determined by the following criteria

- a) The height of the original landform together with that surrounding the site
- b) The desirability to produce an area of land which will allow the finished contours to marry into the existing contours as naturally as possible on the edges adjacent to the existing agricultural areas surrounding the site
- c) To produce a contour profile that is an improvement on that which currently exists and which is safe within the constraints of the existing landform for farm vehicles to negotiate when fertilising and spraying the land
- d) So that the reinstated area can be given over to permanent grassland

6 04 As much of the infill materials delivered to the Application Site will include top soil and sub-soil, this, when combined with the existing top soil and sub-soil materials already on the site, will effectively achieved a rolling programme of restoration This will have the desired result of minimising the visual impact of working on this site

6 05 In any event the proposals will provide for the following

- a) Over the area of grassland finish appropriate sub-soil, or other material approved by the Borough Planning Officer, to a minimum depth of 850mm, will be deposited where necessary This will be both material brought to site that will be stored in an appropriate safe location away from the working area until such time as it can be used in the reinstatement, together with materials placed at one side taken from the area stripped before works of infill commence
- b) The final sub-soil layer to be wing tined to a depth of 850mm, before the spreading of a top-soil layer, in two phases at right angles to each other
- c) The provision of a minimum 150 mm depth of top-soil, or similar material approved by the Borough Planning Officer, to be spread and levelled in a dry and friable condition
- d) The top-soil to be spread, levelled, disc cultivated and harrowed with light agricultural machinery
- e) All areas are to be sown to permanent grass
- f) Allowance for soil samples to be tested to determine the Ph value and limestone requirement and ground limestone applied at the rates required to achieve neutral to slightly acid Ph
- g) Apply pre-seeded general "N P K " fertiliser or similar in accordance with the manufacturers instructions

- h) Sow down to permanent grass, by machine, evenly over a prepared seed bed a seed mixture at the rate of 40 Kg/ha and lightly harrow and roll in. Such mixture to be determined by soil conditions on completion of works of reclamation
- i) Before any hedge planting takes place on the boundaries protective fencing should be erected. The fencing should comprise timber post and wire, 1200mm high when erected. Fencing to be erected on all sides of the hedge planting which is not substantially protected by an existing fence of suitable height and condition. Hedges should be protected on both sides. Fencing materials and methods of erection to comply in all respects to B S 1722
- j) Areas to be replanted should be pre-treated with a general slow release fertiliser such as "Enmag" or similar to be approved by the County Planning Authority and applied in accordance with the manufacturers instructions
- k) Hedges, when planted, should be planted with *Crataegus monogyna* (hawthorn), 300-450mm tall at planting and comply in all respects with B S 3936. Planted in two rows, 450mm between the rows and planted at 300mm spacing in the rows. Plants to be staggered in the rows so that no two plants are opposite each other. Following planting, provide and spread between the plants, slow release general fertiliser such as "Enmag" or similar to be approved by the County Planning Authority
- l) All the planting, grass seeded areas and protective fencing shall be maintained for a period of five years. During that time any hedge found to be dead, dying, damaged or diseased shall be replaced with hedge plants of a similar species and size to those originally planted. Any areas of seeding which fail shall be reseeded and shall be dressed with appropriate fertilisers to retain a good sward. All protective fencing shall be maintained in good repair and damage made good immediately

- m) If a field drainage system is required on completion this will be agreed with the landowner (or his agent) and the Borough Planning Officer if considered appropriate

- n) During the five year period of after maintenance any depressions which have occurred in the site shall be made up to level with top-soil or similar materials. The site treated with a general fertiliser and reseeded of any disturbed or poorly seeded areas shall take place

TOWN AND COUNTRY PLANNING ACT 1990
CONTROL OF POLLUTION ACT 1974

An application seeking planning permission and a site licence to operate a landfill site to dispose of overburden materials, including soil, sub-soil and similar to enable the formation of improved field contours to be achieved

LAND TO THE WEST OF M66 MOTORWAY

SIMISTER

BURY

On behalf of

COSTAIN ENGINEERING AND CONSTRUCTION LIMITED

and

GEORGE NOBLET (PLANT HIRE) LIMITED

1.00. INTRODUCTION:

As per original submission dated 8th February, 1994

2.00. THE APPLICATION SITE:

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2.03 The site contains a total area of 3.77 hectares (9.31 acres) or thereabouts including the ancillary areas and proposed temporary haul roads and is as defined in detail on Plan THGP 2.

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3.00. PLANNING HISTORY AND JUSTIFICATION:

As per original submission dated 8th February, 1994

4.00. CATCHMENT AREA AND ANALYSIS OF MATERIALS:

As per original submission dated 8th February, 1994

5 00 METHOD OF WORKING AND RECLAMATION:

- .
- .
- .
- .

5 03 The proposals for the site are deemed sufficient to secure it from trespass of a vehicular nature and the boundaries, easily identifiable on the ground, are such that the existing fences are also considered appropriate for the security of the operations to be undertaken

5 03 01 The boundary fence extends for the southern, western and eastern perimeters of the site and consists of a mixture of post and wire, and post and rail fencing interspersed with hawthorn hedging The northern boundary is of a timber post and rail design

5 03 02 The minimum height of this fencing is 1m

5 03 03 This fencing will be maintained in good repair throughout the period of landfill operations, and it will be inspected daily and any damage repaired within one working day of being detected

5 04 We are now advised that there are two public footpaths crossing the site, as defined on Plan **THGP 2** These being footpath number 28 and footpath number 29

5 04 01 The necessary applications have been made to the appropriate authority to effect a temporary closure thereof

- .
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- .

5 21 The cubic content of the site is approximately 85,000 cubic metres (118,842 yards) The fill received at the site will be delivered in large dump trucks having payload capacities of between 25 and 30 tonnes

5 22 Assuming an average cubic capacity for each load delivered of 10 cubic metres it can be calculated that 8500 loads will be required to create the finished landform proposed Allowing for a figure of settlement of 5% then the foregoing figure should be increased to one of 8925 loads It is envisaged that on average 40 loads of fill will be deposited on the site each day

5 22 01 The maximum daily input to the site will be 2500 cubic metres This quantity represents the output from a 40 tonne excavator working efficiently over a 10 hour shift Clearly, this represents a maximum achievable figure and, in practice, it is unlikely that this will be attained on a sustained basis

5 23 Accordingly, it can be seen that the phase for infilling will last for a maximum of 41 weeks

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6.00 LANDFORM AND LANDSCAPING:

As per original submission dated 8th February, 1994

19th April, 1994

Your Ref: W.D.L.Application no. RD/LIC.1064/94

JRJG/kh

Chief Officer,
Greater Manchester Waste Regulation Authority,
6th Floor,
Blackfriars House,
Parsonage,
Manchester.
M3 2JA.

G. M. W. R. A		
REC'D.	04 MAY 1994	
FOR.	INITIALS	DATE

Dear Sirs,

Re: Land to the West of the M66, Simister.

With reference to your letter of the 29th March last we would now comment as follows -

1. A copy of the Notice of Planning Consent is enclosed.
2. **SURFACE WATER MONITORING:**

It is proposed that there will be one monitoring point to stream as it leaves the site. (See attached plan)

Standing water is unlikely to accumulate on the site due to the method of working. However, if it does occur in a significant quantity it shall be tested as the stream location.

The following schedule of background and operational sampling and testing will be followed:

Background:

To be taken and analysed, prior to deposit of material, 3 No. samples for the following determinants:-

Conductivity
pH Value
COD
Sodium

Dissolved Oxygen
Ammoniacal Nitrogen
Alkalinity (CaCo³)
Potassium

Chloride
Sulphate
Phosphate
Magnesium

Calcium
Iron
Zinc
Mercury
Monotydrlic Phenols

Chromium
Nickel
Cadmium
Arsenic
Organochlorines

Mangonese
Copper
Lead
Total Cyanide

Operational:

Weekly

Conductivity
pH Value

Monthly

COD
Dissolved Oxygen
Ammoniacal Nitrogen
Alnality (CaCo³)
Chloride
Sulphate
Phosphate

3 Monthly

Sodium
Potassium
Magnesium
Calcium
Chromium
Mangonese
Iron
Nickel
Copper
Zinc
Cadmium
Lead
Mercury
Arsenic
Total Cyanide
Monohydric
Phenols
Organochlorines

Methods:

- a. pH Value - Measured by Costain Environmental Scientist using a Portable Unit - Model ELE3070
- b. All other types Measured by LTG Laboratories Summary of analytical methods attached.

Results to be supplied to W.R.A. within 1 month of sampling.

3. With regard to the analysis of the infill materials we would comment as follows:

Source of material to be deposited:

Refer to:

- a. M66 Manchester Outer Ring Road, Denton to Middleton.
M62 - River Irk Diversion Contract.

Contd...

Volume 9 - Tender Document.
 Ground Investigation data.
 Parts 1-4

b. Attached Earthworks Zones Plan.

The material to be deposited in RD/LIC/1064/94 will be sourced from areas 3,4,5,6 and 8 and IVALA as shown on the attached plan. The following summarises the data included in the above document No 1.

Area	Borehole/Trial Pit Ref	Document Ref	Section
3	24	Part 1	1
	872	Part 1	2
	373	Part 1	2
	589	Part 1	3
	598	Part 1	3
	442/1	Part 2	1
	442/2	Part 2	1
	442/3	Part 2	1
	464/1	Part 2	1
	C486/16	Part 2	2
	TP C30	Part 2	2
	TP C31	Part 2	2
	TP C39	Part 2	2
	TP C40	Part 2	2
	4	481/1	Part 2
481/2		Part 2	1
591		Part 1	3
22		Part 1	1
22A		Part 1	1
5	874	Part 1	2
	593	Part 1	3
	8	Part 1	1
	9	Part 1	1
	10	Part 1	1
	11	Part 1	1
	19	Part 1	1
	20	Part 1	1
	21	Part 1	1
6	462/1	Part 2	1
	462/2	Part 2	1
	462/3	Part 2	1
	5608/1 (OHL 1)	Part 1	1
	5608/2 (OHL 2)	Part 1	1
	5608/3	Part 1	1

Contd....

8	596	Part 1	3
	TP C6	Part 2	2
	TP C7	Part 2	2
	TP C9	Part 2	2
	TP C10	Part 2	2
IVALA	G1	Part 4	1
	G2	Part 4	1
	G3	Part 4	1
	G4	Part 4	1
	G5	Part 4	1
	G7	Part 4	1
	G8	Part 4	1

4. It is proposed to excavate a 300mm deep grip, 1 metre away from the edges of the stream and mound the excavated material on the stream side of the grip. This will act as a barrier to prevent run off or sediment from entering the stream.

The grip will be cleaned as necessary and should water accumulate it shall be pumped down an appropriate foul sewer or sprayed on the surface of the site during dust suppression activities.

5. Should non-permitted wastes be identified by the foreman inspecting the waste as it enters the site it shall be immediately sent back. Should this prove impossible or the material is identified after tipping, then it shall be stored in a temporary stockpile area which shall be fenced with plastic barrier fencing. The non permitted material will be removed as soon as practicable.

Yours faithfully,
for THE HAMILTON GEE PARTNERSHIP

J.R.J.Gee ARICS.

PROFILE LICENCE AMENDMENT FORM

WASTE DISPOSAL SITE LICENCE APPLICATION NUMBER WML 1064

APPLICANT NAME Costain Engineering & Construction Limited, Costain House, Nicholson Walk, Maidenhead, Berkshire, SL6 1LN

SITE LOCATION Land to the West of the M66 Motorway, Smuster, Bury

PROFILE LICENCE TYPE PFILF1 REV1 INERT LANDFILL SITE - MAJOR

CONDITIONS	INSERTIONS
TITLE	WML 1064
FOOTER	WML 1064
A1 A4(a) A4(b) A7	WML/1064/P1 J4, after 9 months J4, after 15 months J2 to J6
B1(c)(i) (ii)	5000 tonnes/day Group 1 5000 tonnes/day Group 2 NOT PERMITTED Group 3 NOT PERMITTED Group 4 NOT PERMITTED Group 5 NOT PERMITTED
D2	Costain Engineering & Construction Limited, Costain House, Kelvin Avenue, Middleton, Manchester
E4	western carriageway of the M66 motorway
F1	Monday to Friday 07 30 to 18 30 hours Saturday 07 30 to 13 30 hours
J4	Planning Permission Number 29539/94
ANNEX A ANNEX D ANNEX E	(As per attached copy) (As per attached copy) (As per attached copy) WML/1064/P1 (as per attached plan)

CONSULTATION

CONDITION	AMENDMENT	REASONS
A3 (a) (i)	replace "J1 to J7" with "J1 to J6"	Condition deleted
A3 (a) (iii)	replace "C2 and/or G3" with "C2 and/or G2"	Condition deleted
D1	replace "(a) to (g)" with "(a) to (f)"	Condition deleted
D1 (e)	delete Condition	Groundwater monitoring for this site is not required due to the inert nature of the fill material
D1 (f)	replace "D1 (f)" with "D1 (e)" replace "Condition I5" with "Condition I4"	Condition deleted Condition deleted
D1 (g)	replace "D1 (g)" with "D1 (f)"	Condition deleted
D3 (e)	delete Condition	Groundwater monitoring is not required
D3 (f)	delete "D3 (f)" replace with "D3 (e)" This Condition shall now read - "A copy of the records of measurements of concentrations of flammable gas and of carbon dioxide taken in accordance with the requirements of Conditions D1(e) and I4 shall be sent to the Waste Regulation Authority in accordance with the requirements of Condition I4 "	Condition deleted Conditions deleted
D3 (g)	replace "D3 (g)" with "D3 (f)" replace "Condition D1 (g)" with "Condition D1 (f)"	Condition deleted Condition deleted
E3	This Condition shall now read - "No waste shall be deposited until a fence as specified in the Working Plan has been constructed around the perimeter of the operational area of the site Site fencing shall be inspected each working day, and any damage or holes repaired within one working day (24 hours) of being detected "	Access to the site will be exclusively from the closed western carriageway of the M66 motorway Therefore lockable gates are not necessary
E4	delete "through the gates specified in Condition E3"	
E5	delete Condition	Lorries exiting the site will not utilise the public highway, with the exception of the closed western carriageway of the M66 Therefore wheelcleaning equipment is not necessary
E6	replace "E6" with "E5"	Condition deleted
E7	replace "E7" with "E6"	Condition deleted
E8	replace "E8" with "E7" This Condition shall now read - No fuel shall be stored on the site	Condition deleted
G1	replace "Conditions J1 to J4" with "Conditions J1 to J3"	Condition deleted
G1 (a)	replace "Conditions J1 to J4" with "Conditions J1 to J3"	Condition deleted

G2	delete Condition	Site phasing shall not be undertaken
G3	<p>replace "G3" with "G2"</p> <p>This Condition shall now read -</p> <p>"Wastes awaiting deposit shall be stored only along the top of the working face in an area not exceeding 20.0 metres in length, extending no more than 10.0 metres from the top of the working face and to a maximum height of 2.0 metres. Such stored waste shall be finally deposited in accordance with Conditions G3 to G10 inclusive, and in any case before the end of the working day."</p>	
G4	replace "G4" with "G3"	
G5	<p>replace "G5" with "G4"</p> <p>replace "2.0 metres" with "2.5 metres"</p>	
G6	<p>replace "G6" with "G5"</p> <p>replace "Condition G7" with "Condition G6"</p>	
G7	<p>replace "G7" with "G6"</p> <p>replace "Condition G3" with "Condition G2"</p>	
G8	replace "G8" with "G7"	
G9	replace "G9" with "G8"	
G10	replace "G10" with "G9"	
G11	replace "G11" with "G10"	
H3	delete "in accordance with the Working Plan"	
H6	<p>This Condition shall now read -</p> <p>"Whenever necessary the site surface, incoming loads and waste awaiting deposit shall be sprayed with water to suppress the emission of dust, and in any event shall be so sprayed if requested by officers of the Waste Regulation Authority. Whenever necessary all loads of waste in open containers being received at the site shall be adequately sheeted."</p>	
H7	<p>This Condition shall now read -</p> <p>"The licence holder shall ensure that any vehicles leaving the site or access roads between the highway and the site do not foul the highway with mud or other material."</p>	

H8	delete Condition	The Working Plan states that the waste to be deposited will be damp In addition, access is directly from the closed western carriageway of the M66 motorway
I4	delete Condition	Groundwater monitoring is not required at this site
I5	delete "I5" replace with "I4"	
(b)	delete "Condition I5(a)" replace with "Condition I4(a)"	
(c)	This Condition shall now read - "All results of measurements of flammable gas concentrations and carbon dioxide concentrations made in accordance with the requirements of the Working Plan and Conditions I4(a) and I4(b) shall be recorded in accordance with Conditions D1 and I4(a) "	
(d)	This Condition shall now read - 'All records made in accordance with the requirements of Condition I4(c) shall be kept in accordance with the requirements of Condition D2 "	
(e)	This Condition shall now read - "A copy of each record made in accordance with the requirements of Condition I4(c) shall be submitted in writing to the Waste Regulation Authority within one week of the relevant measurement being taken "	
J1(a)	delete "Conditions J2 to J4" replace with "Conditions J2 and J3"	
J1(c)	delete "Conditions J2 to J4" replace with "Conditions J2 and J3"	
J1(d)	This Condition shall now read - "No waste shall be deposited until the appropriate engineering works as specified in Conditions J2 and J3 have been provided, tested and agreed in accordance with (a) to (c) above "	
J4	delete Condition	Groundwater monitoring is not required
J5	replace "J5" with "J4"	
J6	replace "J6" with "J5"	

J7 (a)	replace "J7" with "J6" This Condition shall now read - "All engineering works specified in Conditions J2 and J3, and provided in accordance with Condition J1, shall be periodically tested and maintained"	
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Annex A Permitted Waste Types (Conditions B1 and B2)

MAXIMUM TOTAL INPUT OF ALL PERMITTED WASTES FROM FOLLOWING GROUP 1 TO SITE IS NOT TO EXCEED

- (a) 5000 TONNES/DAY
- (b) 30000 TONNES/WEEK

NOTES

- (1) MIXED WASTES Major components of mixed wastes from Groups 1 to 5 must be identified, and must all be permitted waste types and within permitted quantities for those waste types
- (2) CONTAMINATION Contamination of any material or product occurs when it is either rendered not suitable for the purpose for which it was obtained or produced, or determined to be off-specification for its original intended purpose, due to the presence of foreign chemicals or substances
- (3) CONTAMINANTS Contaminants are chemicals or substances which, by their introduction into or presence in a material or product, render that material or product either off-specification or unsuitable for the purpose for which it was originally produced
- (4) CONTAMINATED SOILS AND OTHER WASTES

Annex B lists specified contaminants against which soils and other wastes can be assessed and classified according to 5 'Contamination Classes' (See also the Notes to Annex B) The maximum levels in soils and other wastes of specified contaminants that are permitted on this site are given in the following Groups 1 to 5

For contaminants which are detected but not specified, or which are over the maximum permitted level specified, then to determine whether the soil or other waste is permitted and, if permitted, what quantity is permitted, the soil or other waste type should be considered in terms of the worst case contaminating chemical, and classed as that specific waste type in Group 5 The presence in significant quantities of a specifically non-permitted substance as a contaminant will render the soil or other waste type non-permitted

Annex A Continued . Permitted Waste Types (Conditions B1 And B2)

Group 1

Maximum total daily input of Group 1 Wastes not exceeding 5000 tonnes/day

Maximum total daily input of all permitted waste to entire site is 5000 tonnes/day

Contamination levels The maximum permitted contamination levels for waste types in this Group of those contaminants specified in Annex B are the maximum levels for Contamination Class A

The waste types permitted from Group 1 and the maximum weekly input expressed as a proportion of the total weekly input of Group 1 wastes to the site are as follows -

Group 1 Waste Types (Solids only permitted)	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of Group 1 wastes to site)	Conditions/Comments
Mixed permitted waste types from Group 1 only	1 1	100% w/w	Contamination levels must be within those specified for Soil Class A (Annex B)
Soil	1 2	100%w/w	
Rubble, Hardcore, Stone, Brickwork	1 3	NOT PERMITTED	
Concrete	1 4	NOT PERMITTED	
Weathered Tar/Bitumen Aggregate	1 5	NOT PERMITTED	
Slag/Ash/Clinker (except incinerator residue)	1 6	NOT PERMITTED	
Clay	1 7	100%w/w	Contamination levels must be within those specified for Soil Class A (see Annex B)
Sand (Except Foundry Sand or where used as filter material)	1 8	100%w/w	
Carbon, Kieselguhr (Except where used as filter material)	1 9	NOT PERMITTED	
Glass, Pottery, China, Fired Enamels, Ceramics, Mica	1 10	NOT PERMITTED	
Boiler Scale	1 11	NOT PERMITTED	
Mineral Processing Wastes	1 12	NOT PERMITTED	

Annex A Continued Permitted Waste Types (Conditions B1 And B2)

Group 2

Waste types from this group are not permitted to be deposited on the site

Contamination levels The maximum permitted contamination levels for waste types in this Group of those contaminants specified in Annex B are the maximum levels for Contamination Class B

The waste types permitted from Group 2 and the maximum weekly input expressed as a proportion of the total weekly input of all permitted wastes to the site are as follows -

Group 2 Waste Types (Solids only permitted)	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of all permitted wastes to site)	Conditions/Comments
Mixed permitted waste types from Group 2 only	2 1	NOT PERMITTED	
Mixed permitted waste types from Group 1 and 2	2 2	NOT PERMITTED	
Wood and Wood Products - Treated	2 3	NOT PERMITTED	
Wood and Wood Products - Untreated (other than vegetation)	2 4	NOT PERMITTED	
Vegetation (Trees, Bushes, Tree/Hedge Cuttings, etc)	2 5	NOT PERMITTED	
Paper and Paper Products, Including Oiled/Tarred Paper and Cardboard	2 6	NOT PERMITTED	
Plastic	2 7	NOT PERMITTED	
Tanned Leather	2 8	NOT PERMITTED	
Textiles/Fibres - Natural Or Man-Made	2 9	NOT PERMITTED	
Cement (except as constituent of brickwork or concrete)	2 10	NOT PERMITTED	
Fibreglass and resin-reinforced glass fibre products	2 11	NOT PERMITTED	

Annex A Continued . Permitted Waste Types (Conditions B1 And B2)

Group 3

Waste types from this group are not permitted to be deposited on the site

Contamination levels The maximum permitted contamination levels for waste types in this Group of those contaminants specified in Annex B are the maximum levels for Contamination Class C

The waste types permitted from Group 3 and the maximum weekly input expressed as a proportion of the total weekly input of all permitted wastes to the site are as follows -

Group 3 Waste Types (Solids only permitted)	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of all permitted wastes to site)	Conditions/Comments
Mixed permitted waste types from Group 3 only	3 1	NOT PERMITTED	
Mixed permitted waste types from Group 1 and/or Group 2 and/or Group 3	3 2	NOT PERMITTED	
Household Refuse - Treated or Untreated	3 3	NOT PERMITTED	
Empty used containers (Constructed of Metal, Glass, Plastic, Paper, Cardboard, Wood, etc)	3 4	NOT PERMITTED	
Scrap Machinery/Equipment - Ferrous	3 5	NOT PERMITTED	
Scrap Machinery/Equipment - Non-Ferrous	3 6	NOT PERMITTED	
Electrical Fixings/Fixtures/Appliances	3 7	NOT PERMITTED	
Vegetable matter (other than Trees, Bushes, Tree/Hedge Clippings)	3 8	NOT PERMITTED	
Waste Food or Food Processing Materials	3 9	NOT PERMITTED	
Animal Carcasses or parts thereof	3 10	NOT PERMITTED	
Rubber (including tyres)	3 11	NOT PERMITTED	
Soap	3 12	NOT PERMITTED	
Detergents	3 13	NOT PERMITTED	
Cosmetic products - retail only	3 14	NOT PERMITTED	
Dry Sewage Sludge	3 15	NOT PERMITTED	
Incinerator Residue	3 16	NOT PERMITTED	
Foundry Sand	3 17	NOT PERMITTED	
Fibreglass	3 18	NOT PERMITTED	
Plaster, gypsum	3 19	NOT PERMITTED	
Plasterboard	3 20	NOT PERMITTED	

Annex A Continued Permitted Waste Types (Conditions B1 And B2)

Group 4

Waste types from this group are not permitted to be deposited on the site

Contamination levels The maximum permitted contamination levels for waste types in this Group of those contaminants specified in Annex B are the maximum levels for Contamination Class D

The waste types permitted from Group 4 and the maximum weekly input expressed as a proportion of the total weekly input of all permitted wastes to the site are as follows -

Group 4 Waste Types (Solids only permitted)	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of all permitted wastes to site)	Conditions/Comments
Mixed permitted waste types from Group 4 only	4 1	NOT PERMITTED	
Mixed permitted waste types from Group 1 and/or Group 2 and/or Group 3 and Group 4	4 2	NOT PERMITTED	
Asbestos Lagging - All Forms	4 3	NOT PERMITTED	
Asbestos Fibre/Powder	4 4	NOT PERMITTED	
Asbestos Sheet/Piping, Composite/Bonded	4 5	NOT PERMITTED	

Annex A Continued Permitted Waste Types (Conditions B1 And B2)

Group 5

Waste types form this group are not permitted to be deposited on the site

Contamination levels The maximum permitted contamination levels for waste types in this Group of those contaminants specified in Annex B are the maximum levels for Contamination Class E

The waste types permitted from Group 5 and the maximum weekly input expressed as a proportion of the total weekly input of all permitted wastes to the site are as follows -

Group 5 Waste Types	Code	Maximum Permitted Weekly Quantity (% w/w total weekly input of all permitted wastes to site)	Conditions/Comments
MIXED PERMITTED WASTE TYPES FROM GROUP 5 ONLY	5 1	NOT PERMITTED	
MIXED PERMITTED WASTE TYPES FROM GROUP 1 AND/OR GROUP 2 AND/OR GROUP 3 AND/OR GROUP 4 AND GROUP 5	5 2	NOT PERMITTED	
INORGANIC ACIDS, pH < 3 0	5 3	NOT PERMITTED	
ORGANIC ACIDS AND RELATED COMPOUNDS, pH < 3 0	5 4	NOT PERMITTED	
ALKALIS			
pH > 12 0	5 5 1	NOT PERMITTED	
pH < 12 0, as follows			
Hydroxides of Sodium, Potassium or Calcium	5 5 2	NOT PERMITTED	
Oxides of Sodium, Potassium or Calcium	5 5 3	NOT PERMITTED	
Carbonates of Sodium, Potassium or Calcium	5 5 4	NOT PERMITTED	
Ammonia	5 5 5	NOT PERMITTED	
Proprietary Alkaline Cleaners	5 5 6	NOT PERMITTED	
Alkali Metal Phosphates	5 5 7	NOT PERMITTED	
Other Alkalis	5 5 8	NOT PERMITTED	

Group 5 Waste Types	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of all permitted wastes to site)	Conditions/Comments
METALS AND INORGANIC METAL COMPOUNDS (EXCEPT WHERE SPECIFICALLY ADDRESSED UNDER OTHER WASTE TYPES IN GROUPS 1 TO 5) (AS FOLLOWS)			
Aluminum and Aluminum Compounds	5 6 1	NOT PERMITTED	
Barium and Barium Compounds	5 6 2	NOT PERMITTED	
Beryllium and Beryllium Compounds	5 6 3	NOT PERMITTED	
Boron and Boron Compounds	5 6 4	NOT PERMITTED	
Cadmium and Cadmium Compounds	5 6 5	NOT PERMITTED	
Calcium and Calcium Compounds	5 6 6	NOT PERMITTED	
Chromium and Chromium Compounds	5 6 7	NOT PERMITTED	
Cobalt and Cobalt Compounds	5 6 8	NOT PERMITTED	
Copper and Copper Compounds	5 6 9	NOT PERMITTED	
Iron and Iron Compounds	5 6 10	NOT PERMITTED	
Lead and Lead Compounds	5 6 11	NOT PERMITTED	
Magnesium and Magnesium Compounds	5 6 12	NOT PERMITTED	
Manganese and Manganese Compounds	5 6 13	NOT PERMITTED	
Mercury and Mercury Compounds	5 6 14	NOT PERMITTED	
Molybdenum and Molybdenum Compounds	5 6 15	NOT PERMITTED	
Nickel and Nickel Compounds	5 6 16	NOT PERMITTED	
Osmium and Osmium Compounds	5 6 17	NOT PERMITTED	
Phosphorus and Phosphorus Compounds	5 6 18	NOT PERMITTED	
Potassium and Potassium Compounds	5 6 19	NOT PERMITTED	
Silver and Silver Compounds	5 6 20	NOT PERMITTED	
Sodium and Sodium Compounds	5 6 21	NOT PERMITTED	
Thallium and Thallium Compounds	5 6 22	NOT PERMITTED	
Tin and Tin Compounds	5 6 23	NOT PERMITTED	
Titanium and Titanium Compounds	5 6 24	NOT PERMITTED	
Tungsten and Tungsten Compounds	5 6 25	NOT PERMITTED	
Vanadium and Vanadium Compounds	5 6 26	NOT PERMITTED	
Zinc and Zinc Compounds	5 6 27	NOT PERMITTED	
Zirconium and Zirconium Compounds	5 6 28	NOT PERMITTED	

Group 5 Waste Types	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of all permitted wastes to site)	Conditions/Comments
<u>METALLOID ELEMENTS AND COMPOUNDS (EXCEPT WHERE SPECIFICALLY ADDRESSED UNDER OTHER WASTE TYPES IN GROUPS 1 TO 5) (AS FOLLOWS)</u>			
Antimony and Antimony Compounds	571	NOT PERMITTED	
Arsenic and Arsenic Compounds	572	NOT PERMITTED	
Bismuth and Bismuth Compounds	573	NOT PERMITTED	
Selenium and Selenium Compounds	574	NOT PERMITTED	
Tellurium and Tellurium Compounds	575	NOT PERMITTED	
<u>ORGANIC COMPOUNDS (EXCEPT WHERE SPECIFICALLY ADDRESSED UNDER OTHER WASTE TYPES IN GROUPS 1 TO 5) (AS FOLLOWS)</u>			
Organohalogen Compounds	581	NOT PERMITTED	
Organo-Metallic Compounds	582	NOT PERMITTED	
Organo-Nitrogen Compounds	583	NOT PERMITTED	
Organo-Sulphur Compounds	584	NOT PERMITTED	
Organo-Phosphorus Compounds	585	NOT PERMITTED	
Phenols, Analogues and Derivatives	586	NOT PERMITTED	
Peroxydes	587	NOT PERMITTED	
Chelating Compounds	588	NOT PERMITTED	
Phthalates	589	NOT PERMITTED	
Solvents	5810	NOT PERMITTED	
Thinners	5811	NOT PERMITTED	
Mixed Solvents and Thinners	5812	NOT PERMITTED	
Petrol, Kerosene Der., Fuel Oil	5813	NOT PERMITTED	
Mineral Oils and Greases	5814	NOT PERMITTED	
Vegetable Oils, Fats and Greases	5815	NOT PERMITTED	
Brake fluid	5816	NOT PERMITTED	
Antifreeze solution	5817	NOT PERMITTED	
<u>OTHER COMPOUNDS (INORGANIC OR ORGANIC) (EXCEPT WHERE SPECIFICALLY ADDRESSED UNDER OTHER WASTE TYPES IN GROUPS 1 TO 5) (AS FOLLOWS)</u>			
Cyanides (all types)	591	NOT PERMITTED	
Sulphates	592	NOT PERMITTED	
Sulphides	593	NOT PERMITTED	
Selenides	594	NOT PERMITTED	
Tellurides	595	NOT PERMITTED	
Arsenides	596	NOT PERMITTED	
Oxidising Compounds	597	NOT PERMITTED	
Carbides and Acetylides	598	NOT PERMITTED	

Group 5 Waste Types	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of all permitted wastes to site)	Conditions/Comments
POLYMERIC MATERIALS (EXCEPT WHERE SPECIFICALLY ADDRESSED UNDER OTHER WASTE TYPES IN GROUPS 1 TO 5) (AS FOLLOWS)			
Precursors, Monomers and products of incomplete Polymerisation	5 10 1	NOT PERMITTED	These wastes must not
Finished Products and Manufacturing Scraps	5 10 2	NOT PERMITTED	(a) have a flashpoint <30°C,
Late & Late w/Rubber solutions/suspensions	5 10 3	NOT PERMITTED	(b) be an organic liquid,
Synthetic Adhesive Wastes	5 10 4	NOT PERMITTED	(c) separate to give an organic liquid phase,
Ion Exchange Resin Wastes	5 10 5	NOT PERMITTED	(d) produce toxic vapours,
FINE CHEMICALS			(e) react with water to produce prohibited wastes or more than the permitted quantity
Pharmaceuticals	5 11 1	NOT PERMITTED	
Cosmetic Products	5 11 2	NOT PERMITTED	
CLINICAL WASTES - TREATED OR UNTREATED			
Group A Wastes (Treated or Untreated)	5 12 1	NOT PERMITTED	Clinical waste defined in Collection and Disposal of Waste Regulations 1988 (SI No 819) Treated refers to treatment of clinical waste by sterilisation or similar method so as to render harmless Consists of (a) Soiled surgical dressings, swabs and all other contaminated waste from treatment areas, (b) Material other than linen from cases of infectious disease (c) All human tissues (whether infected or not), animal carcasses and tissues from laboratories, and all related swabs and dressings
Group B Wastes (Treated or Untreated)	5 12 2	NOT PERMITTED	Consists of discarded syringes, needles, cartridges, broken glass and any other sharp instruments
Group C Wastes (Treated or Untreated)	5 12 3	NOT PERMITTED	Consists of laboratory and post-mortem waste other than waste included in Group A.
Group D Wastes (Treated or Untreated)	5 12 4	NOT PERMITTED	Consists of those pharmaceutical and chemical wastes falling within the definition of clinical waste
Group E Wastes (Untreated)	5 12 5	NOT PERMITTED	Used disposal bed-pan liners urine containers, incontinence pads and stoma bags
Group E Wastes (Treated)	5 12 6	NOT PERMITTED	Used disposal bed pan liners, urine containers, incontinence pads and stoma bags Only permitted from agreed clinical waste treatment centres, specified in Working Plan, and where waste is contained in plastic storage bags - yellow with black stripe - with clear identification of source of waste
BIOCIDES, ETC			
Biocides	5 13 1	NOT PERMITTED	
Pesticides	5 13 2	NOT PERMITTED	
Herbicides	5 13 3	NOT PERMITTED	
Fungicides	5 13 4	NOT PERMITTED	

Group 5 Waste Types	Code	Maximum Permitted Weekly Quantity (% w/w total actual weekly input of all permitted wastes to site)	Conditions/Comments
MISCELLANEOUS CHEMICAL WASTES (EXCEPT WHERE SPECIFICALLY ADDRESSED UNDER OTHER WASTE TYPES IN GROUPS 1 TO 5) (AS FOLLOWS)			
Mixed Organic Compounds	5 14 1	NOT PERMITTED	
Mixed Inorganic Compounds	5 14 2	NOT PERMITTED	
Laboratory Chemicals	5 14 3	NOT PERMITTED	
Unidentified Chemicals	5 14 4	NOT PERMITTED	
Organics identified by trade name only	5 14 5	NOT PERMITTED	
Inorganics identified by trade name only	5 14 6	NOT PERMITTED	
FILTER MATERIALS, CONTAMINATED RUBBISH AND TREATMENT SLUDGE			These wastes must not (a) have a flashpoint <30°C, (b) be an organic liquid, (c) separate to give an organic liquid phase, (d) produce toxic vapours, (e) react with water to produce prohibited wastes or more than the permitted quantity
Used filter materials (including Carbon, Kieselguhr)	5 15 1	NOT PERMITTED	
Industrial effluent treatment sludge	5 15 2	NOT PERMITTED	
Filter cake	5 15 3	NOT PERMITTED	
Filter screenings	5 15 4	NOT PERMITTED	
Interceptor Wastes, Tars, Paints, Dyes and Pigments			These wastes must not (a) have a flashpoint <30°C, (b) be an organic liquid, (c) separate to give an organic liquid phase, (d) produce toxic vapours, (e) react with water to produce prohibited wastes or more than the permitted quantity
Tank cleaning sludge	5 16 1	NOT PERMITTED	
Interceptor pit wastes	5 16 2	NOT PERMITTED	
Printing industry wastes (ink manufacture/use)	5 16 3	NOT PERMITTED	
Paint/Varnish Wastes (Manufacture/Use)	5 16 4	NOT PERMITTED	
Dyestuffs Waste	5 16 5	NOT PERMITTED	
Distillation Residues	5 16 6	NOT PERMITTED	
Tar, Pitch, Bitumen and Asphalts (except as Weathered Tar/Bitumen aggregate)	5 16 7	NOT PERMITTED	
Acid Tars	5 16 8	NOT PERMITTED	

Annex D Analysis of samples of Surface Water

NOTE With the exception of measurements of conductivity and pH, all analyses of samples to be carried out by a NAMAS-accredited laboratory or recognised equivalent (see Condition I3)

SURFACE WATERS

DETERMINANDS	FREQUENCIES	SITE OPERATION			SITE RESTORATION			SITE COMPLETION				
		UNITS	WEEKLY	MONTHLY	3 MONTHLY	MONTHLY	3-MONTHLY	6-MONTHLY	MONTHLY	3-MONTHLY	6-MONTHLY	
Conductivity	uS/cm	Y				Y				Y		
pH Value	-	Y				Y				Y		
COD	mg/l		Y			Y				Y		
BOD	mg/l											
TOC	mg/l											
TON	mg/l											
Dissolved oxygen	mg/l		Y									
Ammoniacal nitrogen	mg/l		Y				Y				Y	
Alkalinity (CaCO ₃)	mg/l		Y				Y				Y	
Chloride	mg/l		Y				Y				Y	
Sulphate	mg/l		Y				Y				Y	
Phosphate	mg/l		Y				Y				Y	
Sodium	mg/l				Y					Y		Y
Potassium	mg/l				Y					Y		Y
Magnesium	mg/l				Y					Y		Y
Calcium	mg/l				Y					Y		Y
Chromium	mg/l				Y					Y		Y
Manganese	mg/l				Y					Y		Y
Iron	mg/l				Y					Y		Y
Nickel	mg/l				Y					Y		Y
Copper	mg/l				Y					Y		Y
Zinc	mg/l				Y					Y		Y
Cadmium	mg/l				Y					Y		Y
Lead	mg/l				Y					Y		Y
Mercury	mg/l				Y					Y		Y
Arsenic	mg/l				Y					Y		Y
Total Cyanide	mg/l				Y					Y		Y
Monohydric phenols	mg/l				Y					Y		Y
Organochlorines (insecticides)	mg/l				Y					Y		Y

Annex E Schedule of site records

Subject	Record	Details	Parameters	Units	Submission to WRA		
					Frequency	Deadline	
Waste Inputs	Records	Type of waste	Annex A		One/Load	On request	On request
		Quantity of waste	Weight	Tonnes			
		Person/Company					
		Source					
		Time and date					
		Registration number					
		Reg. Carriers No					
		Driver name					
		Types of waste	Annex A				
		Total Quantity/Type	Weight	Tonnes			
Waste Outputs	Records	Type of waste	Annex A		One/Load	On Request	On request
		Quantity Of Waste	Weight	Tonnes			
		Person/Company					
		Destination					
		Time and date					
		Registration number					
		Reg. Carriers No					
		Driver name					
		Types Of Waste	Annex A				
		Total Quantity/Type	Weight	Tonnes			
Special Wastes (refer to Condition C2)	Consignment notes	As per "Control Of Pollution (Special Waste) Regulations 1980"			Each Consignment	Monthly	Within 2 weeks following end of calendar month
		As per Annex C Contamination analysis					
Analyses of soil and other waste	Soil contaminated above soil Class A	Soil analysis	As per Annex C Contamination analysis		Random sample from 1 in 10 loads	1/Sample	Within 1 calendar month of sample being taken
		Full analysis	As per Annex C Full analysis				
		Waste contaminated above level for that group	As per Annex C Basic analysis				
		Waste in drums (refer to Condition C2)	As per Annex C Basic analysis				
			As per Annex C Full analysis				
			As per Annex C Basic analysis				
Wastes specified in Annex A as requiring analysis	Full analysis	Full analysis	As per Annex C Full analysis		Random sample from 1 drum in each load, or 1 in 10 tankers	1/Sample	Within 1 calendar month of sample being taken
		Basic analysis	As per Annex C Basic analysis				
		Basic analysis	As per Annex C Basic analysis				
		Full analysis	As per Annex C Full analysis				
		Full analysis	As per Annex C Full analysis		Random sample from 1 in 10 loads	1/Sample	Within 1 calendar month of sample being taken

Annex E: Schedule of site records

Subject	Record	Details	Parameters	Units	Frequency	Submission to WRA	
						Frequency	Deadline
Surface waters	Monitoring and Analysis	Results and Summary Interpretation	As per Annex D1		As per Condition 13(c)	As per Condition 13(c)	
	Monitoring and Analysis	Flammable gas	Concentration	% V/V	Weekly	Monthly	Within 2 weeks following end of month
Weather	Atmospheric and weather conditions	Carbon Dioxide	Concentration	% V/V	Weekly	Each thirteen week period ending 1 January, 1 April, 1 July and 1 October	Within 2 weeks following end of each thirteen week period
		Oxygen	Concentration	% V/V			
		Rainfall		mm			
		Ambient temperature		Degrees °C			
Site levels and remaining volume	Site levels	Atmospheric pressure		Pa	Yearly	Yearly	Within 1 calendar month following end of year
		Windspeed		m/s			
		Height A.O.D		m			
		Volume		m ³			
		Remaining sitelife		Months			
Cell completion records	Cell completion records	Remainng sitelife		Months	Yearly	Yearly	Within 1 calendar month following completion of cap
		Date first waste deposit	Date	Date	1/Cell	Within 1 calendar month following completion of cap	
		Date final waste deposit	Date	Date			
		No of days uncapped	Days	Days			
		No of days temporary capped	Days	Days			
		Total days exposed waste	Days	Days			
		No days to emplace final cap	Days	Days			
		Wastes Deposited	Group 1	Tonnes			

Regional Location Plan

THGP 1



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The C.E.V.C.A.	
REC'D. 22 FEB 1994	
ADIC	

The
Hamilton Gee
PARTNERSHIP
CHARTERED SURVEYORS

Land to the west of M66
Simister
Bury

SCALE 1:50 000

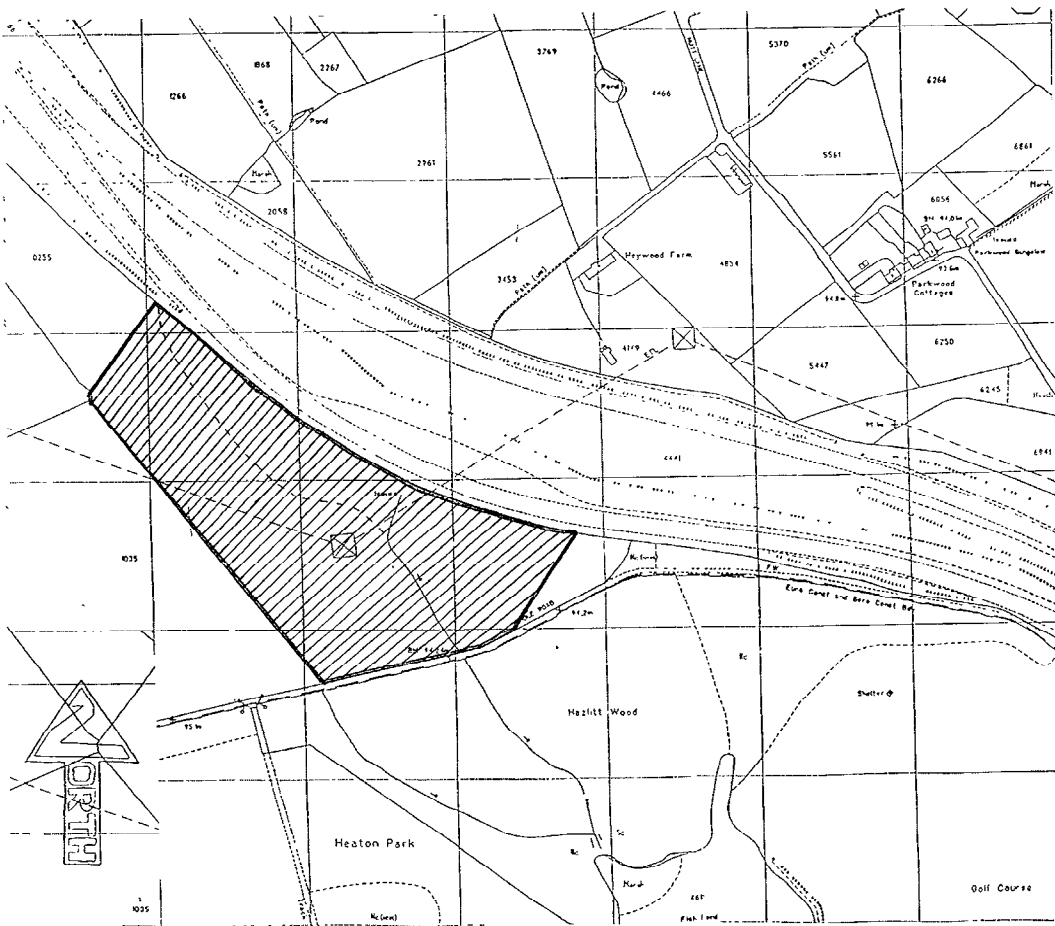
THGP 2

Site Plan

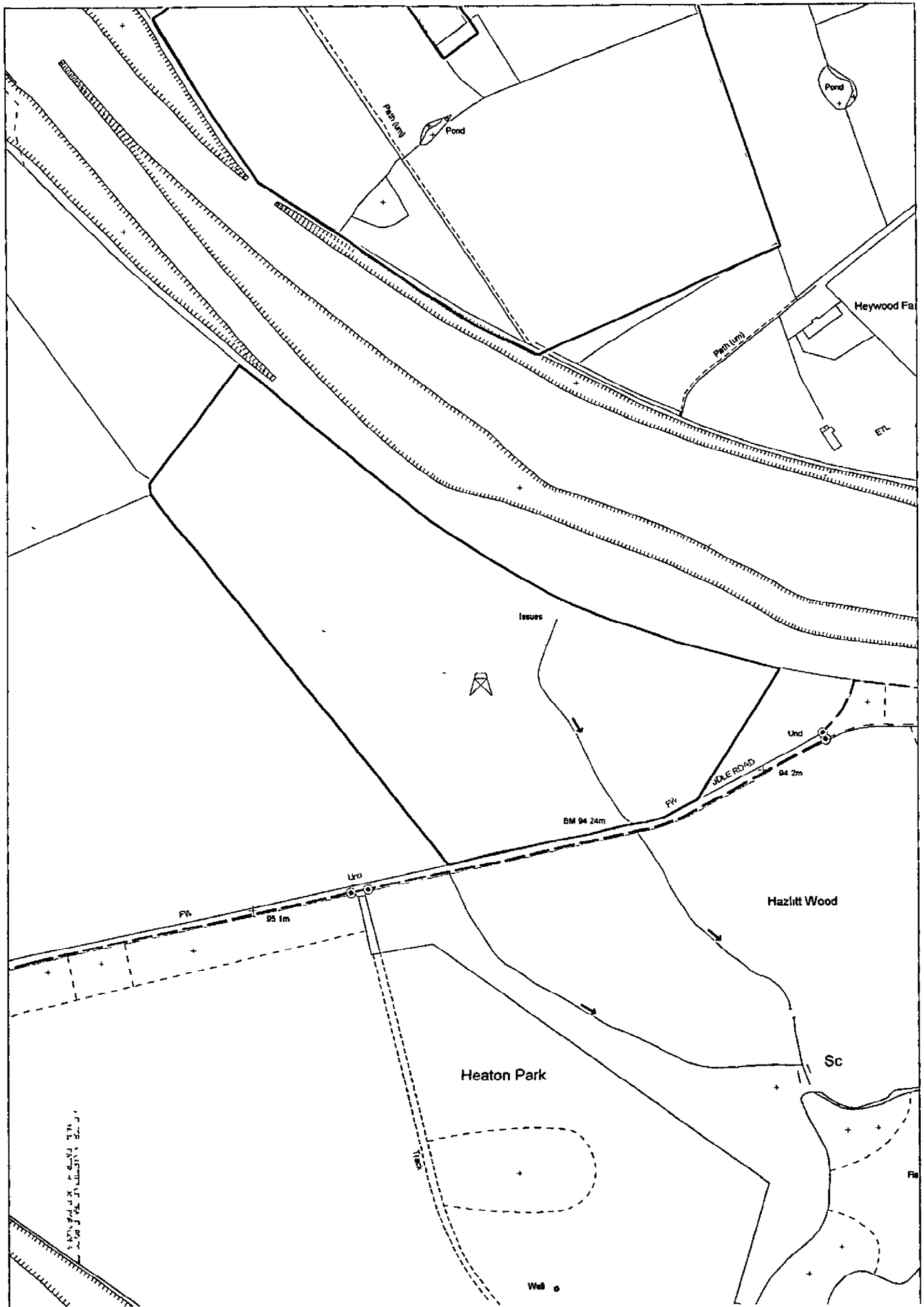
The
Hamilton Gee
PARTNERSHIP
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Land to the west of M66
Simister
Bury

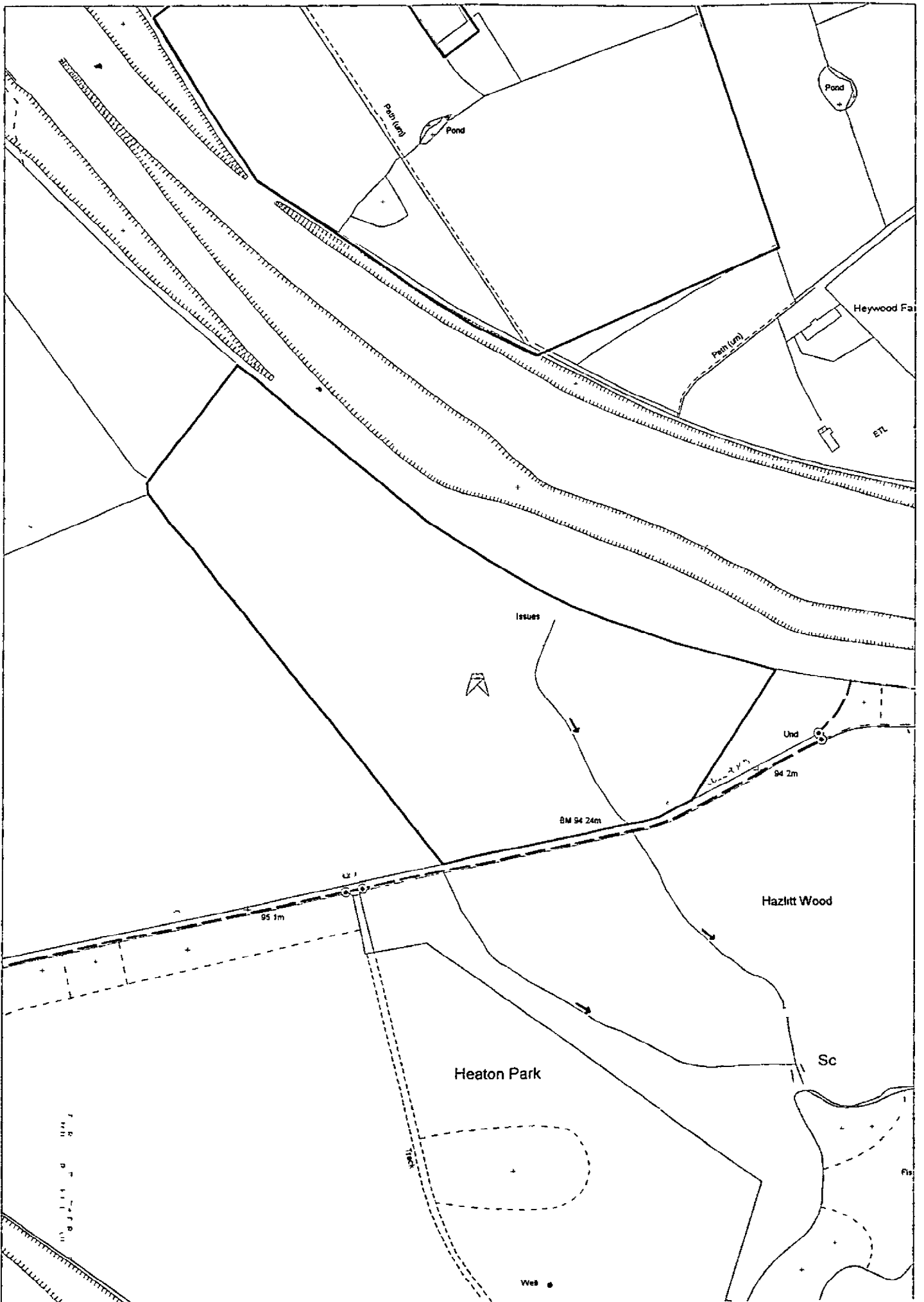
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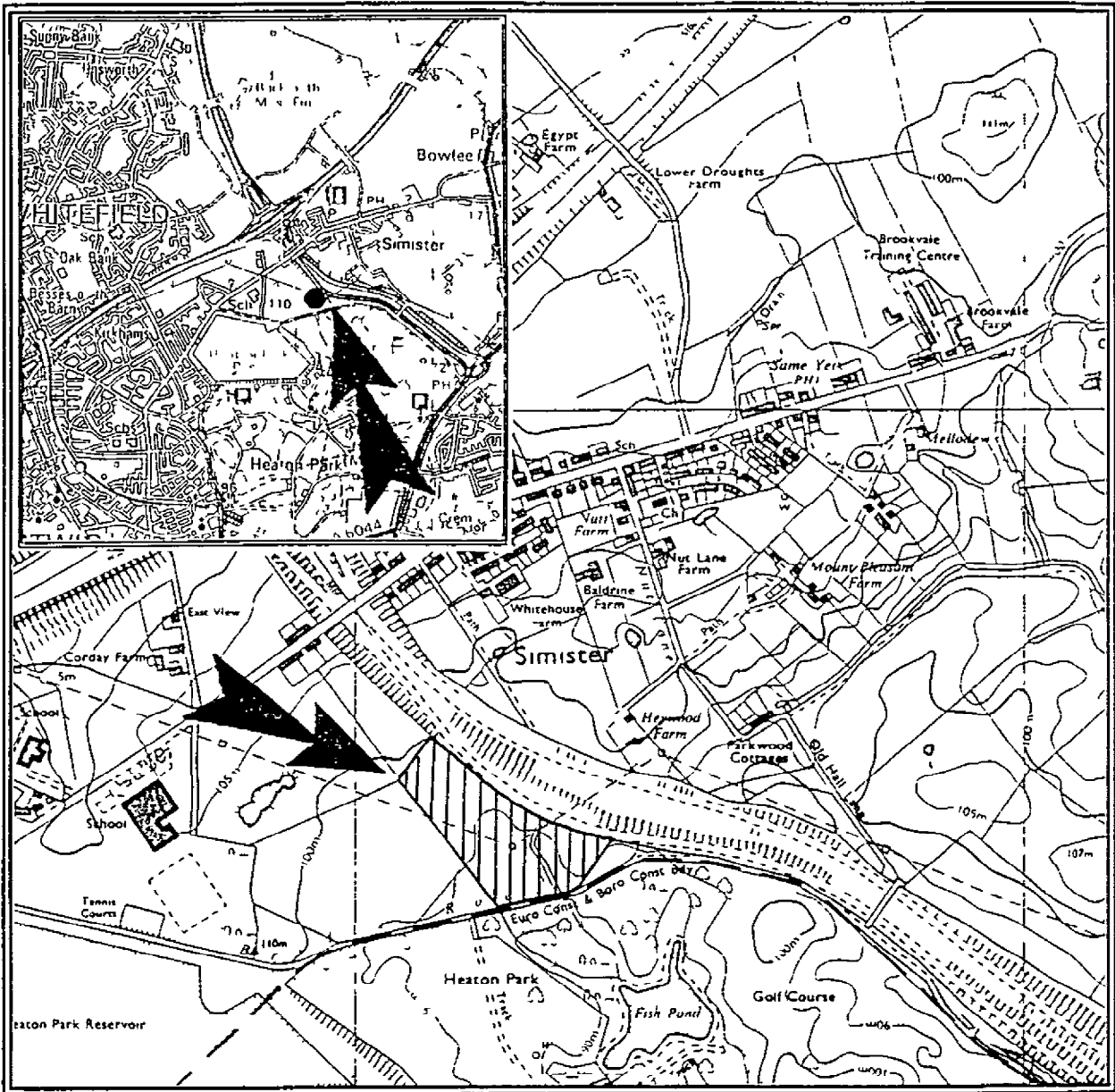
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wml / 1046
Bury 12500



wmb / 1046
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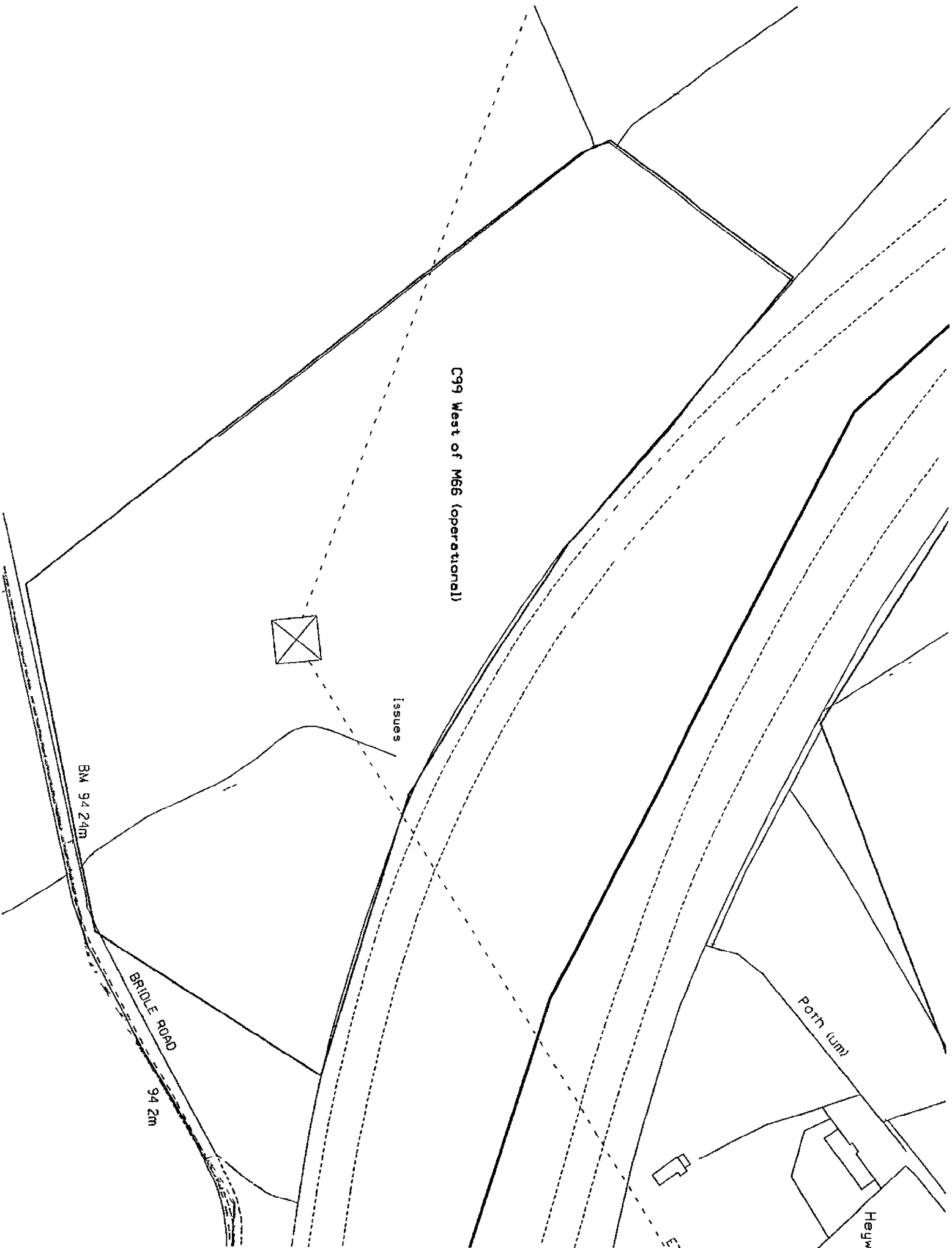


APPENDIX A

RD/LIC/1064/94	NGR SD 834 054	
ADDRESS Land to the west of the M66 motorway, Simister, Bury		↑ N
Location of Site		

SCALE 1 10000
 permission
 1 50000 (Insert)

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C99 West of M66 (operational)

Issues

BM 94.24m

BRIDLE ROAD

94.2m

Poth (um)

Heyw

Bradley, Anton

From: Dow Services [REDACTED]
Sent: 05 June 2023 08:22
To: Bradley, Anton
Cc: Massey, Joe
Subject: [EXTERNAL] FW: M60 Simister Island Interchange: Enquiry regarding reuse of waste soils from a historic inert landfill

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Anton

At the moment we have paused any new projects considering undertaking historic landfill remediation whilst we assess the correct regulatory controls and risk. Our team of landfill specialists are reviewing the work with the aim to complete in the coming months.

Regards

Rosemary

Rosemary Thirumalareddy

Advisor – Resources from Waste Team

Strategy and Resources from Waste - E&B Waste Regulation

Environment Agency | Quadrat 2, 99 Parkway Avenue, Sheffield, South Yorkshire, S9 4WF

[REDACTED]

[Check if your material is waste - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/check-if-your-material-is-waste)

[Get an opinion from the definition of waste service - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/get-an-opinion-from-the-definition-of-waste-service)

From: Bradley, Anton [REDACTED]
Sent: 19 May 2023 12:59
To: Friend, Janic [REDACTED] Dow Services [REDACTED]
Cc: Denison-Smith, Rebecca [REDACTED]
Subject: RE: M60 Simister Island Interchange: Enquiry regarding reuse of waste soils from a historic inert landfill

Hi Janice/DOW services,

Please see email chain below and attachment.

Please could you advise if there are any updates on our original enquiry below (dated February 2022)?

CL:AIRE did advised that “the reuse of all landfill materials (including inert materials) is currently outside the scope of the DoW CoP”. Therefore we will proceed with their advice unless the EA can provide advice that contradicts this.

Kind regards,

Anton Bradley (He/Him)
MIEnvSci, CSci, RSoBRA

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Water & Environment Junior Leadership Team member  Have an innovation idea? Talk to me for more information or submit it through [Jacobs Connect](#)

From: Friend, Janice [redacted]
Sent: 05 May 2022 10:37
To: Bradley, Anton [redacted]
Subject: [EXTERNAL] FW: M60 Simister Island Interchange: Enquiry regarding reuse of waste soils from a historic inert landfill

Good morning Anton,

I have been in touch with our landfill specialist and he has advised he is waiting for the updated draft guidance on **remediating or redeveloping historic landfills** to be approved by our legal team.

As soon as I have the information from him I will contact you.

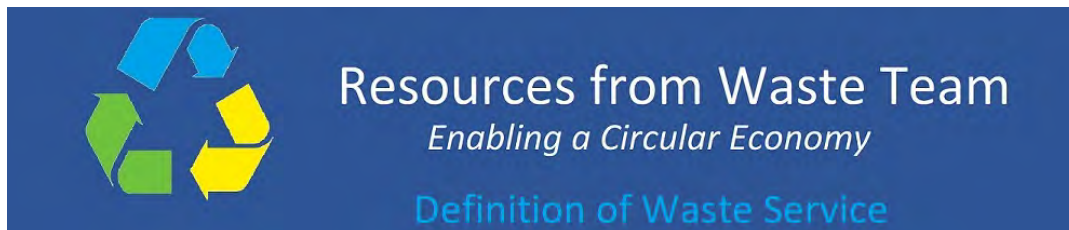
Many thanks

Kind regards

Janice

Janice Friend. MEng. BEng.(Hons).Prince2
Environment and Business Officer
Resources from Waste Team
Strategy and Resources from Waste – **E&B Waste Regulation**

Environment Agency, Lateral, 8 City Walk, Leeds, LS11 9AT
Mobile [redacted]



From: Bradley, Anto [REDACTED]
Sent: 03 May 2022 09:56
To: Dow Services [REDACTED]
Subject: RE: M60 Simister Island Interchange: Enquiry regarding reuse of waste soils from a historic inert landfill

Hi Dow Services,

Please could you confirm if the Environment Agency has made any progress on my request, submitted on 18th February and received on 22nd February 2022?

Kind regards,

Anton

Anton Bradley (He/Him)
MIEnvSci, CSci, RSoBRA (Human Health, Permanent Gases)
Senior Land Quality Scientist | Water & Environment

[REDACTED]

[REDACTED]

Jacobs Challenging today.
Reinventing tomorrow.

From: Dow Service [REDACTED]
Sent: 22 February 2022 10:54
To: Bradley, Anton [REDACTED]
Subject: [EXTERNAL] RE: M60 Simister Island Interchange: Enquiry regarding reuse of waste soils from a historic inert landfill

Hi Anton

Your enquiry has been passed to our landfill specialist who will be in touch with you in due course.

Kind regards

Janice

Janice Friend. MEng.Prince2
Environment and Business Officer
Resources from Waste Team
Strategy and Resources from Waste – **E&B Waste Regulation**

Environment Agency, Lateral, 8 City Walk, Leeds, LS11 9AT
Mobile [REDACTED]

From: Bradley, Anto [REDACTED]
Sent: 18 February 2022 17:36

To: Dow Services [REDACTED]

Subject: M60 Simister Island Interchange: Enquiry regarding reuse of waste soils from a historic inert landfill

You don't often get email [REDACTED]

(EA),

Please could the EA's waste team provide advice on the following matter?

Jacobs and Costain are exploring options to construct an attenuation pond on a historic inert landfill to alleviate the flood risk associated with upgrades to the M60 Simister Island Interchange in Greater Manchester.

The historic inert landfill, which accepted inert waste soils generated from the widening of the adjacent M60 southbound during the mid-1990s, is located to the south west of the existing M60 southbound and was regulated by the Greater Manchester Waste Regulation Authority (GMWRA).

It is understood from the attached GMWRA permit documents that the inert waste soil deposited was to be used for agricultural purposes, and the deposition activities were designated as a landfill activity in name only, due to the absence of any other permitting mechanisms (e.g., CL:AIRE Definition of Waste Code of Practice (DoWCoP)).

A subsequent ground investigation (GI), by Jacobs, Costain and Ian Farmers Associates, has not identified any visual, olfactory or chemical evidence of ground contamination within the historic landfill. Laboratory testing of groundwater samples, taken from the historic landfill, are in progress.

The GI data, to date, conforms to assumptions in our conceptual site model that the landfill contains inert/uncontaminated soils.

Please could the EA Waste Permitting Team advise if any reuse of soils from the historic inert landfill could be undertaken in accordance with a Materials Management Plan, as part of the CL:AIRE DoWCoP, or requires a Waste Recovery Plan, as part of an Environmental Permit?

I have attached two zip files/documents containing:

- Desk based data (e.g. landfill permits, site plans, regulatory email correspondence and environmental database information);
- GI data (e.g. exploratory hole plan, borehole records, soil and leachate laboratory data).

We understand that this request may be regarded as 'pre-application advice' and thus likely to incur a fee. **If so, please could the EA confirm costs for providing advice on the above matter?**

If you have any queries, please do not hesitate to contact me.

Kind regards,

Anton Bradley (He/Him)
MIEnvSci, CSci, RSoBRA (Human Health, Permanent Gases)
Senior Land Quality Scientist | Water & Environment

[REDACTED]
5 First Street, Manchester, M15 4GU | UK

[REDACTED]
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Annex C. Contaminated Land Legislative Background and Risk Assessment Methodology

Legislative Background

The UK Legislative Framework for dealing with historical land contamination is set out within Part 2A of the Environmental Protection Act (EPA) 1990. The overarching objectives of the Government's policy on contaminated land and the Part 2A regime are:

- To identify and remove unacceptable risks to human health and the environment.
- To seek and ensure that contaminated land is made suitable for its current use.
- To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development.

Under the planning and development control regime, as set out in the Ministry of Housing, Communities and Local Government (2021) National Planning Policy Framework, the aim is to ensure that there are no unacceptable risks to either receptors relevant to Part 2A, or to others that may be covered by other regimes, taking into account the proposed new land use.

The Water Resources Act 1991 empowers the Environment Agency to enforce remedial actions where there is pollution of the likelihood of pollution to controlled waters (groundwater and surface water bodies). The Groundwater Regulations 1998 prohibits the release of List I/II substances that pose a threat to controlled waters.

Risk Assessment Methodology

Risk assessment is the process of collating known information on a hazard or set of hazards in order to estimate actual or potential risks to receptors. The receptor may be human health, a water resource, a sensitive local ecosystem or even future construction materials. Receptors can be connected with the hazard under consideration via one or several exposure pathways (e.g., the pathway of direct contact). Risks are generally managed by isolating or removing the hazard, isolating the receptor, or by intercepting the exposure pathway. Without the three essential components of a source (hazard), pathway and receptor, there can be no risk. Thus, the mere presence of a hazard at a site does not mean that there will necessarily be attendant risks. The risk assessment process thus focuses on those parts of a site where hazards or potential hazards have been identified and is not general to the whole site.

The risk assessment process is based on the Land Contamination Risk Management (LCRM) guidance (Environment Agency, 2020), and CIRIA C552: Contaminated Land Risk Assessment (CIRIA, 2001). The LCRM guidance has been developed to provide the technical framework for applying a risk management process when dealing with land affected by contamination. CIRIA C552 presents a qualitative method of interpreting the risks based on the magnitudes of both the potential consequence (severity) and the probability (likelihood) of the risk occurring. An important thread throughout the overall process of risk assessment is the need to formulate and develop a Conceptual Site Model (CSM) for the site, which supports the identification and assessment of pollutant linkages. Development of the CSM forms the main part of preliminary risk assessment, and the model is subsequently refined or revised as more information and understanding is obtained through the risk assessment process. The CSM will cover risks to human health, controlled waters, and other receptors, such as buildings, structures, and services, where applicable.

Hazards

Potential sources of contamination are identified for a site, based on a review of the current and previous site uses. Not only the nature but also the likely extent of any contamination is considered, e.g., whether such contamination is likely to be localised or widespread.

Receptors

The varying effects of a hazard on individual receptors depends largely on the sensitivity of the target. Receptors include any people, animal, or plant population, or natural or economic resources within the range of the source which are connected to the source by the transport pathway. Receptors can, in addition, extend to remediation processes and future construction materials that may be adversely affected by on-site contamination. In general, however, receptors can be divided into a number of groups depending on the final use of the site.

Pathways

The mere presence of contamination does not infer a risk. The exposure pathway determines the dose delivered to the receptor and the effective dose determines the extent of the adverse effect on the receptor. The pathway which transports the contaminants to the receptor or target generally involves conveyance via soil, water, or air.

Exposure Assessment

By considering the source, pathway and receptor, an assessment is made for each contaminant on a receptor-by-receptor basis with reference to the significance and degree of the risk. In assessing this information, a measure is made of whether the source contamination can reach a receptor, determining whether it is of a major or minor significance. The exposure risks are assessed against the present site conditions.

A risk assessment is then undertaken for the potential source-pathway-receptor linkages to identify potentially unacceptable risks on a qualitative basis. This approach is based on LCRM and CIRIA C552 guidance on risk assessment. Risk is based on a consideration of both:

- The likelihood of an event (probability); [takes into account both the presence of the hazard and receptor and the integrity of the pathway].
- The severity of the potential consequence (takes into account both the potential severity of the hazard and the sensitivity of the receptor).

In order to determine the risk to the identified receptor, both the likelihood and severity of the potential hazard is input into a risk assessment matrix as follows:

		Consequence			
		Severe	Medium	Mild	Minor/Negligible
Probability (Likelihood)	High Likelihood	Very high risk	High risk	Moderate risk	Moderate/Low risk
	Likely	High risk	Moderate risk	Moderate/Low risk	Low risk
	Low Likelihood	Moderate risk	Moderate/Low risk	Low risk	Very low risk
	Unlikely	Moderate/Low risk	Low risk	Very low risk	Very low risk

Under such a classification system the following categorisation of risk has been developed and the terminology adopted as follows:

Term	Description
Very high risk	Severe harm to a receptor may already be occurring OR a high likelihood that severe harm will arise to a receptor, unless immediate remedial action works / mitigation measures are undertaken.
High risk	Harm is likely to arise to a receptor, and is likely to be severe, unless appropriate remedial actions / mitigation measures are undertaken. Remedial works may be required in the short term, but likely to be required over the long term.
Moderate risk	Possible that harm could arise to a receptor but low likelihood that such harm would be severe. Harm is likely to be medium. Some remedial works may be required in the long term.
Moderate / low risk	Possible that harm could arise to a receptor, but where a combination of likelihood and consequence results in a risk that is above low but is not of sufficient concern to be classified as medium. It can be driven by cases where there is an acute risk which carries a severe consequence, but where the exposure is unlikely.
Low risk	Possible that harm could arise to a receptor. Such harm would at worst normally be mild.
Very low risk	Low likelihood that harm could arise to a receptor. Such harm unlikely to be any worse than mild.

The colour coding for each risk category is used in the risk assessment summary table. The classifications for consequences and likelihood of occurrence are as follows:

Classification	Definition
Severe	<ul style="list-style-type: none"> i. Acute risks to human health. ii. Short-term risk of pollution of sensitive water resource (e.g., major spillage into controlled waters). iii. Impact on controlled waters e.g., large-scale pollution or very high levels of contamination. iv. Catastrophic damage to buildings or property (e.g. explosion causing building collapse). v. Ecological system effects – irreversible adverse changes to a protected location. Immediate risks.
Medium	<ul style="list-style-type: none"> i. Chronic risks to human health. ii. Pollution of sensitive water resources (e.g., leaching of contaminants into controlled waters). iii. Ecological system effects – substantial adverse changes to a protected location. iv. Significant damage to buildings, structures, and services (e.g., damage rendering a building unsafe to occupy, such as foundation damage).
Mild	<ul style="list-style-type: none"> i. Non-permanent health effects to human health. ii. Pollution of non-sensitive water resources (e.g., pollution of non-classified groundwater). iii. Damage to buildings, structures, and services (e.g., damage rendering a building unsafe to occupy, such as foundation damage). iv. Substantial damage to non-sensitive environments (unprotected ecosystems e.g., crops).
Minor / Negligible	<ul style="list-style-type: none"> i. Non-permanent health effects to human health (easily prevented by appropriate use of PPE). ii. Minor pollution to non-sensitive water resources. iii. Minor damage to non-sensitive environments (unprotected ecosystems e.g., crops). iv. Easily repairable effects of damage to buildings, structures, services, or the environment (e.g., discoloration of concrete, loss of plants in a landscaping scene).

Classification	Definition
High Likelihood	An event is very likely to occur in the short term and is almost inevitable over the long term OR there is evidence at the receptor of harm or pollution.
Likely	It is probable that an event will occur. It is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	Circumstances are possible under which an event could occur. It is by no means certain that even over a longer period such an event would take place, and less likely in the short term.
Unlikely	It is improbable that an event would occur even in the very long term.

Annex D. Laboratory Test Deviations

Table 10-1 Soil laboratory test deviations

Sample identification	Tests undertaken	Test deviation and explanation
BH02 (2.00m bgl), BH02 (4.00m bgl), BH04 (1.00m bgl), BH05 (4.00m bgl), BH07 (1.00m bgl), BH07 (2.00m bgl), BH07 (11.00m bgl), BH08 (3.20m bgl), BH10 (1.00m bgl), BH10A (0.90m bgl), BH10A (2.00m bgl), BH11 (0.90m bgl), BH11 (2.00m bgl), BH12 (2.00m bgl), BH-N12A (1.00m bgl), BH-P04 (0.60m bgl), BH-P04 (1.00m bgl), BHNO03A (0.25m bgl), BHNO03A (1.00m bgl), HP01 (0.25m bgl), HP08 (1.00m bgl), HP10 (0.15m bgl), HP10 (0.5m bgl), HP12 (0.10m bgl), HP12 (0.5m bgl), WS-S01 (0.65m bgl), WS103 (0.40m bgl), WS01 (1.50m bgl), WS01 (0.80m bgl), WS01A (1.00m bgl), WS01A (2.10m bgl), WS02 (0.50m bgl), WS02 (2.00m bgl), WS02 (3.00m bgl), WS02 (4.00m bgl), WS03 (0.60m bgl), WS03 (2.20m bgl), WS04 (2.00m bgl), WS04 (5.00m bgl), WS04 (7.00m bgl), WS05 (0.50m bgl), WS05 (2.00m bgl), WS06 (0.70m bgl), WS06 (2.00m bgl), WS08 (2.10m bgl), WS09 (0.80m bgl), WS09 (2.00m bgl), WS10 (1.00m bgl), WS10 (1.50m bgl), WS10 (3.50m bgl)	Cyanide (free), Cyanide (total)	Exceedance of holding time
BH05 (1.00m bgl)	Cyanide (Free), Hexavalent Chromium, BTEX, MTBE, Cr (III), Organic Matter, PRO, Speciated Phenols, Speciated EPA-16 PAH, TPH, TPHCWG, Cyanide (total) and pH	Exceedance of holding time
BH05 (7.00m bgl)	BTEX, MTBE, PRO and TPHCWG	Exceedance of holding time

Sample identification	Tests undertaken	Test deviation and explanation
BH06 (2.00m bgl), BH06 (8.20m bgl), BH06 (10.2m bgl), BH08 (1.00m bgl), BH08 (2.10m bgl)	Cyanide (free), BTEX, MTBE, PRO, TPH, Cyanide (total)	Exceedance of holding time
BH06 (4.00m bgl), BH06 (5.00m bgl)	BTEX and Total BTEX	Exceedance of holding time
BH13 (0.50m bgl)	BTEX, MTBE, PRO and TPHCWG	Incorrect container
	Cyanide (free), Cyanide (total)	Exceedance of holding time
BH13 (1.75m bgl)	BTEX, MTBE, PRO and TPHCWG	Incorrect container
	Cyanide (free), Cyanide (total)	Exceedance of holding time
BH-N05 (1.50m bgl)	VPH CWG, Cyanide (free), Cyanide (total), PAH-16MS	Exceedance of holding time
BH-N11 (0.25m bgl)	VPH CWG, Cyanide (free), PAH-16MS	Exceedance of holding time
BH-S06 (0.50m bgl)	VPH CWG, Cyanide (Free), Cyanide (total), PAH-16MS	Exceedance of holding time
HP03 (0.25m bgl)	BTEX, MTBE, PRO, Speciated Phenols, Speciated EPA-16 PAHs, TPH and TPHCWG	Incorrect container
WS-N01 (1.50m bgl), WS-S03 (1.00m bgl), WS-S03 (1.80m bgl)	VPH CWG, Cyanide (Free), Cyanide (total)	Exceedance of holding time
WS04 (1.00m bgl)	BTEX, MTBE, PRO and TPHCWG	Incorrect container
	Cyanide (Free), Cyanide (total)	Exceedance of holding time
WS07 (0.70m bgl)	Cyanide (Free), Hexavalent Chromium, BTEX, MTBE, Cr (III), Organic matter, PRO, Speciated Phenols, Speciated EPA-16 PAHs, TPH, TPHCWG, Cyanide (total), pH	Exceedance of holding time

Table 10-2 Groundwater laboratory test deviations

Sample identification	Tests undertaken	Test deviation and explanation
BH-N15, BH-N20, BH-P10B, BH-P11, WS-N04, WS-N07, WS-P01,	Biological Oxygen Demand	Exceedance of holding time

Sample identification	Tests undertaken	Test deviation and explanation
BHNO03A	Ammoniacal Nitrogen as N, Biological Oxygen Demand (total), Electrical Conductivity, pH	Exceedance of holding time

Annex E. Amendments to Geology Codes

Location	Borehole ID	Original AGS Code	Depth from (mbgl)	Depth to (mbgl)	New AGS Code	Reason
M60 Eastbound						
Ch. 1650-1850	BH04	Made Ground Engineered Fill	2.10	4.80	Made Ground	Slag was identified in BH04 between 2.10 and 4.80m, and the underlying natural silty sand had SPT N values of 0 at 5.20m, 6.20m and 7.20m. A review of 1:2,500 historical mapping dated 1952-55 shows a pit at approximate Ch. 1850-1900 at the location of BH04. Subsequent mapping dated 1969 does not show the pit. It is possible that material including slag was used to backfill the pit, and then during construction of the road engineered fill was then placed on top.
Ch. 2150-2300	BH05	Glacial Till	1.90	6.80	Made Ground Engineered Fill	BH05 and BH06 had layers with similar descriptions and depths. BH06 was identified as PFA with a gravel engineered fill layer below. BH05 was identified as natural material, and this has been revised to match BH06. Lidar data indicates existing ground level is between 92-94mAOD however BH05 and BH06 indicate a boundary between natural material and engineered fill at 90mAOD beneath PFA. Between these chainages Peat is mapped and it is likely that during construction additional material has been dug out to give a solid foundation for the overlying PFA embankment.
	BH05	Glacial Till	6.80	8.20	Made Ground Pulverised Fuel Ash	
Ch. 2350	BH-N01	Glacial Till	3.10	14.00	Made Ground Engineered	GDMS indicates a 3m bund and the boreholes both show 3.10m of engineered fill. However, a clear 8m

					Fill (3.10-7.50mBGL) Glacial Till (7.50-14.00mBGL)	embankment can be seen on the Lidar and on aerial imagery. Lidar outwith of the embankment indicates a ground level of between 92-94mAOD which indicates the thickness of fill needs to increase. By extending the thickness to include the next layer in the borehole to 7.50m (93.70mAOD) this ties in much better with the Lidar at the site.
	BH-N01A	Glacial Till	3.10	8.10	Made Ground Engineered Fill	BH-N01 and BH-N01A was undertaken adjacent to each other but BH-N01A had a layer that was missing from BH-N01, this was retrospectively added to the log.
Ch. 2450	WS-N01	Glacial Till	4.20	6.39	Made Ground Engineered Fill	Similarly, Lidar outwith of the embankment indicates a ground level of less than 94mAOD. WS-N01 only extends to 96.50m and therefore the entirety of this log must be engineered fill, hence the base layer needs to be changed.
Ch. 2525 – 2650	<p>Between Ch. 2525 – 2650 the Lidar indicates an increase of the existing ground level moving towards the east. The contours are more spaced out and the embankment construction is thinner whilst maintaining the same road level. This is also indicated in the following borehole logs:</p> <ul style="list-style-type: none"> At Ch. 2525, in BH-N02 the material at 4.70m (98.66mAOD) is described as a relict topsoil, indicating this is likely the existing ground level prior to placement of the embankment material. At Ch. 2560 the existing ground level boundary has been left at 3m (100mAOD) for BH08. At Ch. 2650 the earthworks are At Grade, a slight rise can be seen on aerial imagery. Boreholes undertaken outwith of the embankment indicate an existing ground level of between 93-95.5mAOD. However due to the changing topography in this location it is difficult to ascertain where the embankment construction clearly starts as natural ground level appears to reduce to the north. In WS-N02A the boundary has been left at 2.90m (101mAOD) as the underlying material is described as a loose sand which is unlikely to be compacted construction material. 					

Ch. 2700 (Ch. 400 Northern Loop Earthworks)	BH-N03	Made Ground Engineered Fill	4.70	8.00	Alluvium - Cohesive (4.70- 6.90) Alluvium – Granular (6.90- 8.00)	BH-N03 identified engineered fill to 8m before a void was encountered to 9m. Adjacent BHNO03A was subsequently undertaken to determine the nature of the void and identified Made Ground Engineered Fill to 3.10m overlying soft clay, loose sand and Peat. The levels of the void in BH-N03 and the Peat in BHNO03A tie in indicating the initial drilling likely encountered this material unknowingly. The existing ground level and boundary between engineered and natural material has therefore been taken at 3.10m (96.49mAOD) to match the recently undertaken BHNO03A. This level also ties in with the Lidar data showing the approximate embankment shape here.
	BHNO03A	Made Ground	0.00	7.20	Made Ground Engineered Fill (0.00- 3.10mBGL) Alluvium – Cohesive (3.10-5.50) Alluvium – Granular (5.50-7.20)	
	BHNO03A	Glaciolacustrine Deposits	7.20	8.10	Alluvium – Peat (7.20- 7.80) Alluvium - Cohesive (7.80-8.10)	
Ch. 670 Northern Loop Earthworks	WS-N15	Made Ground Engineered Fill	2.90	8.90	Glaciofluvial Ice Contact Deposits	Simister Island interchange roundabout was built at existing ground level and the northbound M66 and its associated slip roads were constructed in 8m cuts. WS-N15 was undertaken on the slip road and therefore thin Made Ground associated with the road construction over shallow natural material is anticipated. The 8.90m of engineered fill encountered

						<p>exceeds to a depth greater than any of the surrounding boreholes.</p> <p>Bar a 10mm band of ash at 6.70m the material below 2.90m could be natural material. Due to the overwhelming evidence that the logging is likely incorrect here the boundary has been reduced.</p>
Boreholes North of M60						
Ch. 2500	WS-N16	Made Ground Engineered Fill	0.00	5.00	<p>Made Ground Northwest (0.00-3.00mBGL)</p> <p>Glaciofluvial Ice Contact Deposits (3.00-3.45mBGL)</p> <p>Glacial Till (3.45-5.00mBGL)</p>	<p>Material to 3.00m is described as a soft silt with SPT N values of 4 and 3 at 1.20 and 3.00m respectively. This cannot be engineered. The underlying material is above the natural ground level and in this area as described above, and is described as medium dense sand and stiff clay hence this has been amended to natural strata.</p>
Ch. 2600	WS-G08A,	Made Ground Engineered Fill	0.00	7.80	<p>Made Ground Northwest (0.00-4.70mBGL)</p> <p>Glaciofluvial Ice Contact Deposits (4.70-7.80mBGL)</p>	<p>Material to 2.80m is described as a very soft to soft clay and includes granite gravel which is unlike anything in the area and indicates the material must have been placed here. Material between 2.80-4.20m is described as soft clay with organic streaks and has SPTs of 1 and 2.</p> <p>The material beneath these layers at 4.70m and 5.50m matched the description of the surrounding natural Glaciofluvial Ice Contact Deposits of medium</p>

		Glacial Till	7.80	9.38	Glaciofluvial Ice Contact Deposits	<p>dense sands and gravels with no mention of anything foreign to indicate this material was Made Ground other than a note saying it was possibly reworked. The level of this boundary at 95.57mAOD ties in with the boundary level of the 2No. adjacent boreholes at between 95-96mAOD.</p> <p>Additionally underlying this layer at 7.80m there is some soft clay which has an SPT N value of 43 at 8m and therefore this logging was deemed to be inconsistent with the in-situ testing.</p>
Ch. 2650	WS-N02B	Made Ground Engineered Fill	0.00	5.88	<p>Made Ground Northwest (0.00-3.50mBGL)</p> <p>Glaciofluvial Ice Contact Deposits (3.00-3.45mBGL)</p> <p>Glacial Till (3.45-5.00mBGL)</p>	<p>Material to 3.50m is described as very loose sand with an SPT N value of 0 at 1.20m. This cannot be engineered. The underlying material is above the natural ground level and in this area as described above, and is described as medium dense sand and firm clay hence this has been amended to natural strata.</p>
M60 Westbound						
Ch. 1950-2050	WS08	Made Ground Engineered Fill	0.65	3.30	Made Ground Engineered Fill (0.65-1.30mBGL)	<p>At grade earthworks indicated by GDMS and Lidar indicates the ground level is above 98mAOD.</p> <p>WS08 notes cobbles at 1.20m and it is likely that this layer forms the base of the engineered fill, and a boundary has been missed here between the engineered and natural stratum.</p>

					Glacial Till (1.30-3.30mBGL)	
	WS09	Made Ground Engineered Fill	2.90	5.40	Hummocky Glacial Deposits	WS09 has a gravel layer at the base of the engineered fill which ties in with a gravel layer identified in adjacent BH13. However, in BH13 this layer is characterised as the Hummocky Glacial Deposits. Due to the similar depths and how this earthwork is at grade, this layer has been characterised as natural strata to reduce the thickness of engineered fill.
Ch. 2200-2850	BH-S02	Glacial Till	2.30	5	Made Ground Engineered Fill	8m embankment indicated by GDMS and Lidar. The boundary between engineered fill and natural strata was taken to approximately 97mAOD in all the boreholes at this chainage range due to:
	WS-S03	Glacial Till	2.00	2.42	Made Ground Engineered Fill	BH-S03 identified a 6.5m high embankment from 97mAOD on top of natural strata. This level roughly ties in with the surrounding boreholes.
	BH-G06	Made Ground Engineered Fill	5.60	9.90	Glacial Till	BH-G06 and BHS04/A/B all identified larger thicknesses of engineered fill up to 12.70m however these thicknesses would surpass the natural material identified in all of the adjacent holes. The material would also be below the levels identified in the Lidar where the outline and levels of the embankment can clearly be seen.
	BH-S04	Made Ground Engineered Fill	6.90	9.60	Glacial Till	
	BH-S04A	Made Ground Engineered Fill	6.80	9.12	Glacial Till	
	BH-S04B	Made Ground Engineered Fill	3.70	9.00	Glacial Till	BH-G06 identified pockets of Peat below 96mAOD which likely indicates natural stratum and the engineered boundary is above. This roughly ties in

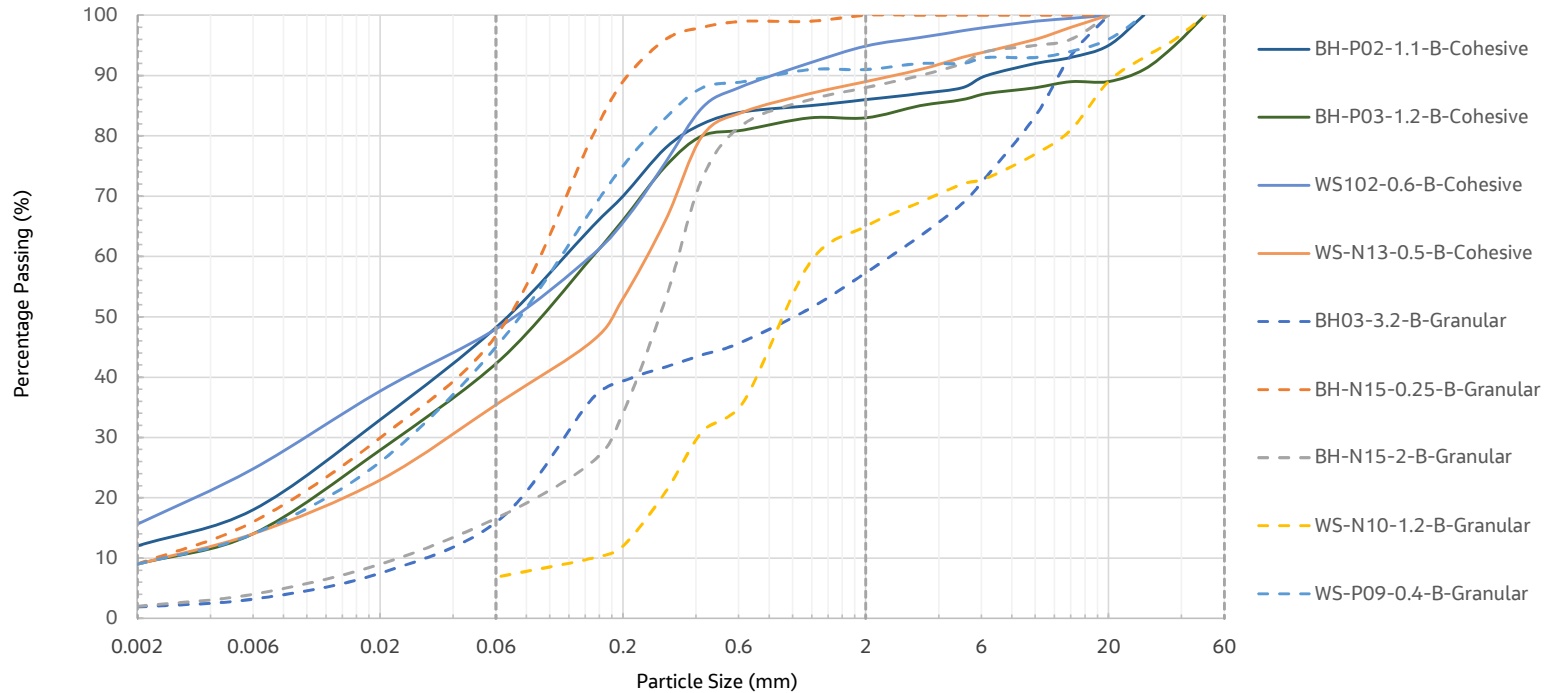
						<p>with the level identified in BH-S03 above, given some lateral displacement.</p> <p>A similar level for the boundary has been taken in BH-S04/A. Interestingly BH-S04/A had a layer that is missing in BH-S04B, and this has been retrospectively added to the log at 6.70m.</p> <p>At BH-S02 the Lidar shows a clear embankment build up from 94mAOD and therefore the boundary has been lowered to take into account this information, and the material descriptions and boundaries in adjacent holes.</p>
M66 Northbound						
Ch. 2220 (North)	BH-G11	Made Ground Engineered Fill	1.20	2.90	Glaciofluvial Deposit	5m cutting indicated by GDMS and Lidar data. Layer was a loose sand that was better suited to being natural strata over engineered.
Northeast Mound						
N/A	BH-N08A	Made Ground Engineered Fill	9.30	12.00	Glaciofluvial Ice Contact Deposit	Lidar data indicates the existing ground level is likely between 92 to 96mAOD in the north and south respectfully. The Made Ground in BH-N08A and BH-N08B extends to 12m (90.52mAOD) and 11m (91.76mAOD), and the descriptions of the basal layers past 95m could be natural material.
N/A	BH-N08B	Made Ground Engineered Fill	9.00	11.00	Glaciofluvial Ice Contact Deposit	

Annex F. Material Parameter Plots

Unit	Testing	Figure No.
Made Ground- Cohesive and Granular	Particle Size Distribution Curve	A1
Made Ground- Northeast Mound- Cohesive and Granular	Particle Size Distribution Curve	A2
Made Ground- Northwest- Cohesive and Granular	Particle Size Distribution Curve	A3
Made Ground- Various	Atterbergs vs Depth	A4
Made Ground- Various	Plasticity Chart	A5
Made Ground- Various	Standard Penetration Test vs Depth	A6
Made Ground- Various	Undrained Shear Strength vs Depth	A7
Made Ground- Engineered Fill Cohesive	Particle Size Distribution Curve	B1
Made Ground- Engineered Fill Cohesive	Atterberg and Moisture Content vs Depth	B2
Made Ground- Engineered Fill Cohesive and Granular	Plasticity Chart	B3
Made Ground- Engineered Fill Cohesive	Standard Penetration Test vs Depth	B4
Made Ground- Engineered Fill Cohesive	Undrained Shear Strength vs Depth	B5
Made Ground- Engineered Fill Granular	Particle Size Distribution Curve	C1
Made Ground- Engineered Fill Granular	Atterberg and Moisture Content vs Depth	C2
Made Ground- Engineered Fill Granular	Standard Penetration Test vs Depth	C3
Made Ground- Pulverised Fuel Ash	Particle Size Distribution Curve	D1
Made Ground- Pulverised Fuel Ash	Atterberg and Moisture Content vs Depth	D2
Made Ground- Pulverised Fuel Ash	Plasticity Chart	D3
Made Ground- Pulverised Fuel Ash	Standard Penetration Test vs Depth	D4
Alluvium - Cohesive	Particle Size Distribution Curve	E1
Alluvium – Peat, Cohesive and Granular	Atterberg and Moisture Content vs Depth	E2
Alluvium – Peat and Cohesive	Plasticity Chart	E3

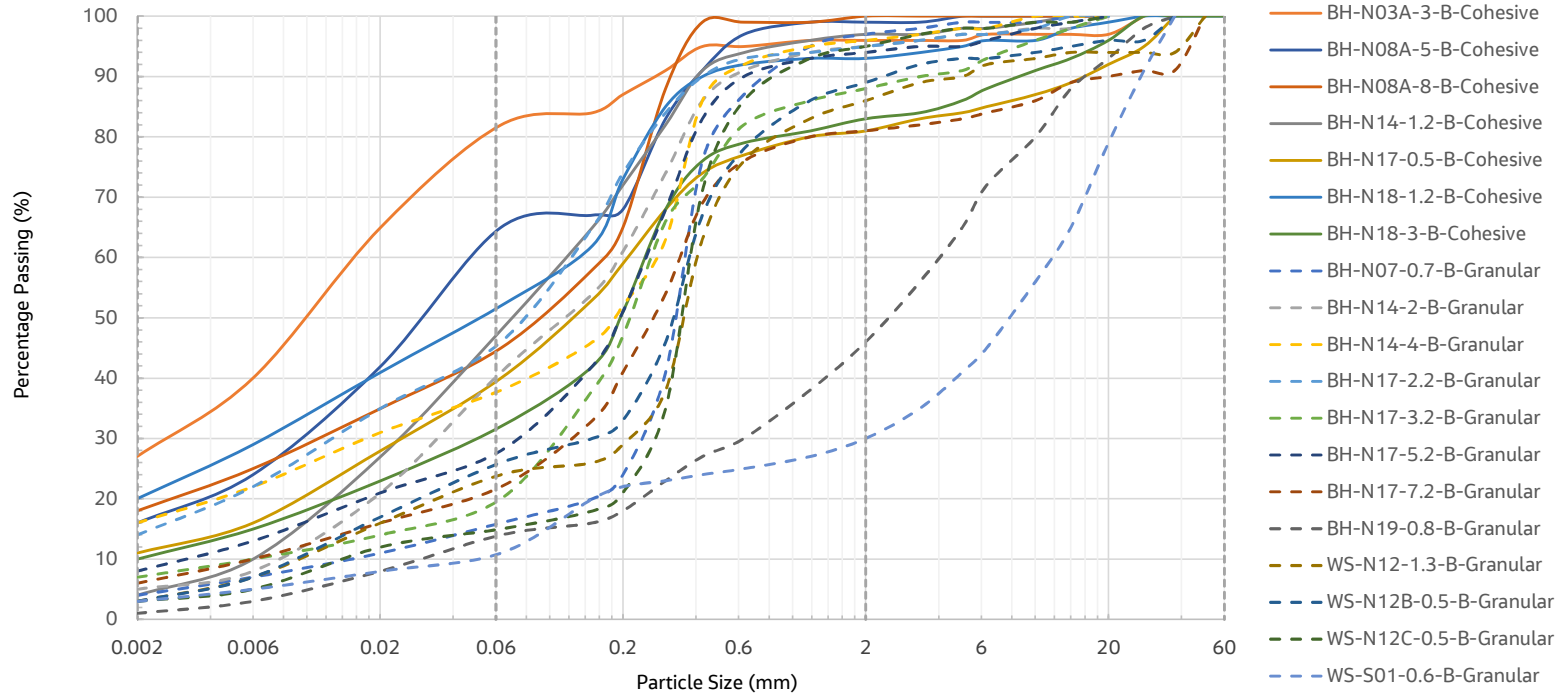
Alluvium - Peat and Cohesive	Standard Penetration Test vs Depth	E4
Alluvium - Peat and Cohesive	Undrained Shear Strength vs Depth	E5
Alluvium - Granular	Particle Size Distribution Curve	F1
Alluvium - Granular	Standard Penetration Test vs Depth	F2
Glaciolacustrine Deposits	Particle Size Distribution Curve	G1
Glaciolacustrine Deposits	Atterberg and Moisture Content vs Depth	G2
Glaciolacustrine Deposits	Plasticity Chart	G3
Glaciolacustrine Deposits	Undrained Shear Strength vs Depth	G4
Hummocky Glacial Deposits	Particle Size Distribution Curve	H1
Hummocky Glacial Deposits	Standard Penetration Test vs Depth	H2
Glaciofluvial Deposits	Particle Size Distribution Curve	I1
Glaciofluvial Deposits	Standard Penetration Test vs Depth	I2
Glaciofluvial Ice Contact Deposits	Particle Size Distribution Curve	J1
Glaciofluvial Ice Contact Deposits	Atterberg and Moisture Content vs Depth	J2
Glaciofluvial Ice Contact Deposits	Plasticity Chart	J3
Glaciofluvial Ice Contact Deposits	Standard Penetration Test vs Depth	J4
Glacial Till- Cohesive	Particle Size Distribution Curve	K1
Glacial Till- Cohesive	Atterberg and Moisture Content vs Depth	K2
Glacial Till- Cohesive	Plasticity Chart	K3
Glacial Till- Cohesive	Standard Penetration Test vs Depth	K4
Glacial Till- Cohesive and Granular	Undrained Shear Strength vs Depth	K5
Glacial Till- Granular	Particle Size Distribution Curve	L1
Glacial Till- Granular	Atterberg and Moisture Content vs Depth	L2
Glacial Till- Granular	Plasticity Chart	L3
Glacial Till- Granular	Standard Penetration Test vs Depth	L4
All Units	California Bearing Ratio	N1
Pennine Coal Measures	Unconfined Compressive Strength vs Depth	M1

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	



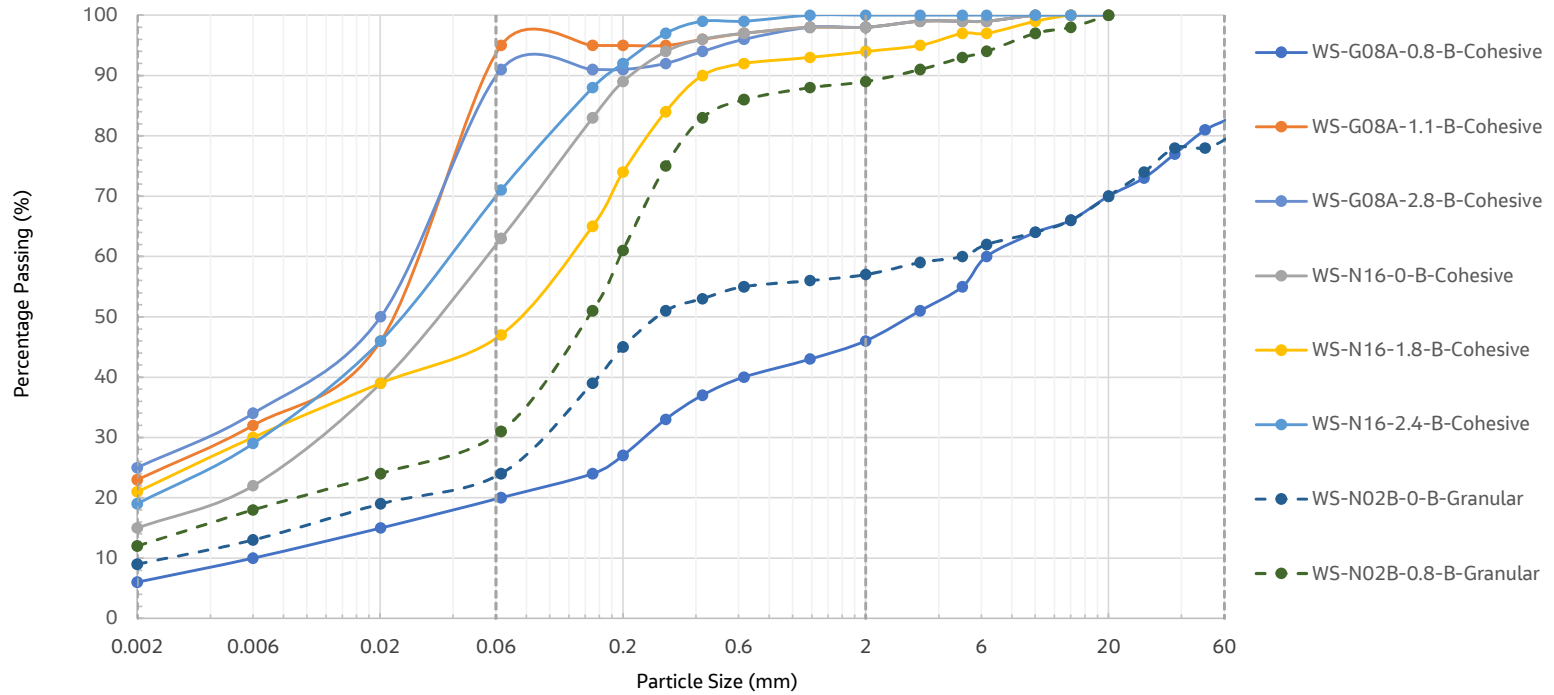
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground		Figure No.:	A1

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

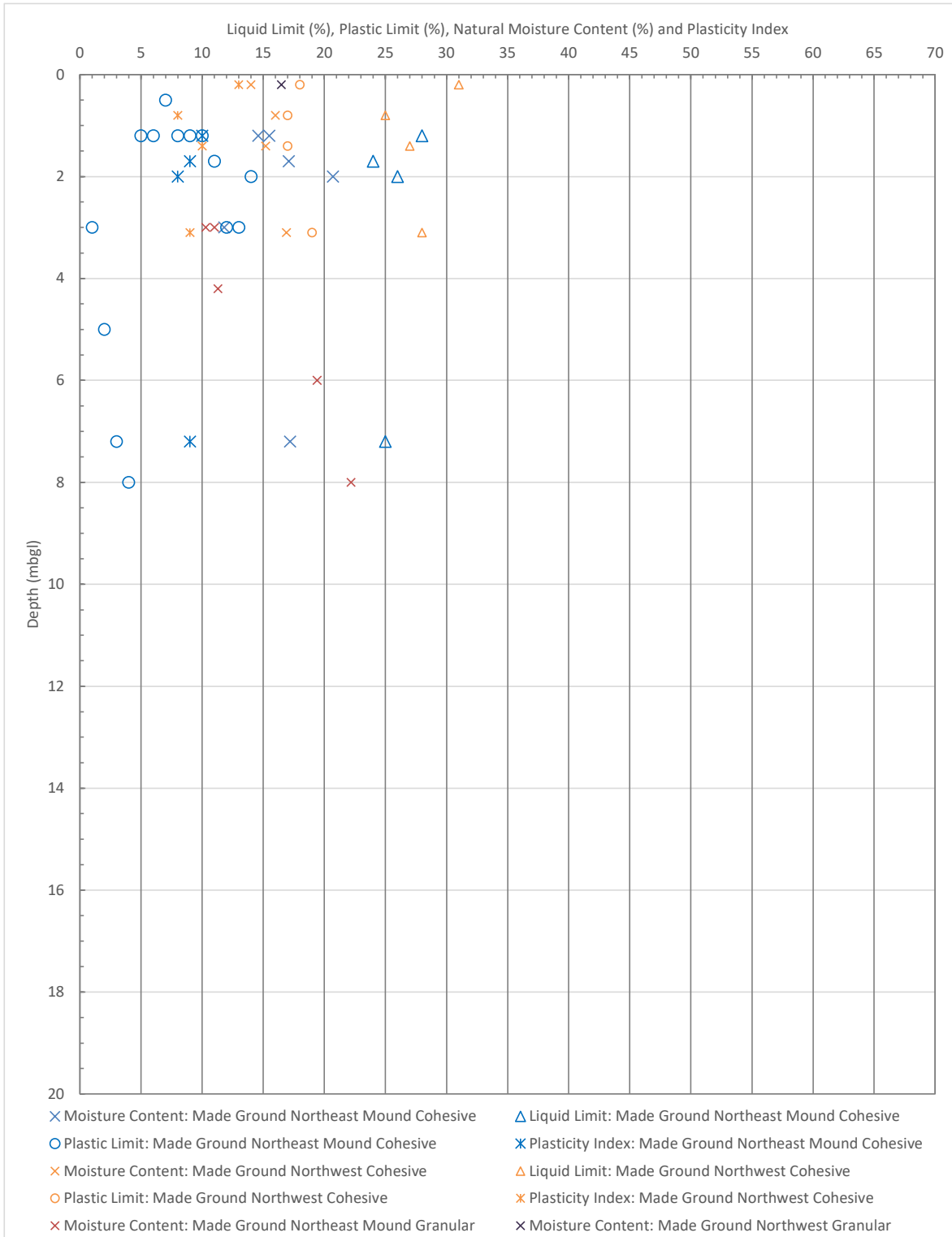


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Northeast Mound		Figure No.:	A2

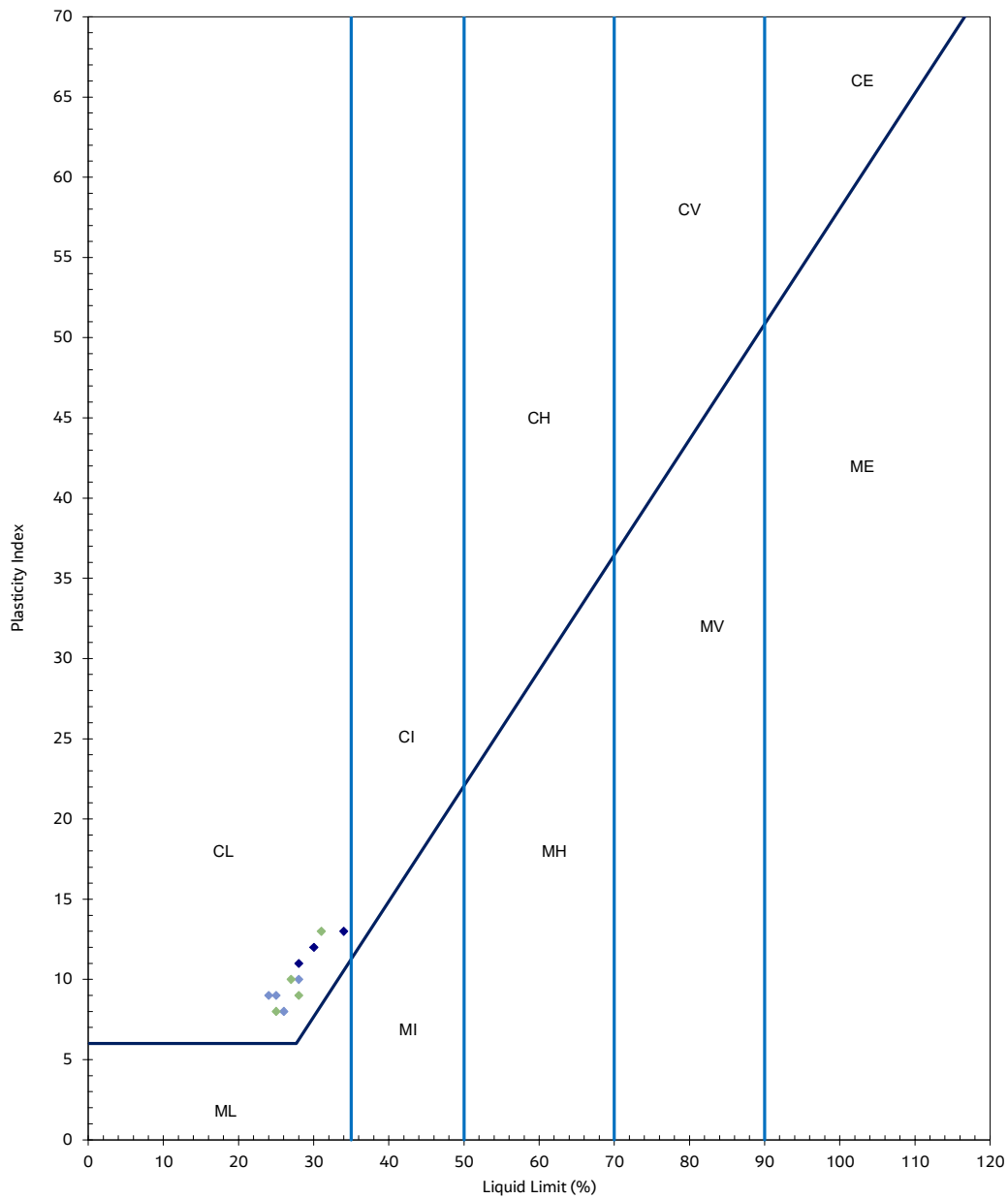
Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	



National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Northwest		Figure No.:	A3

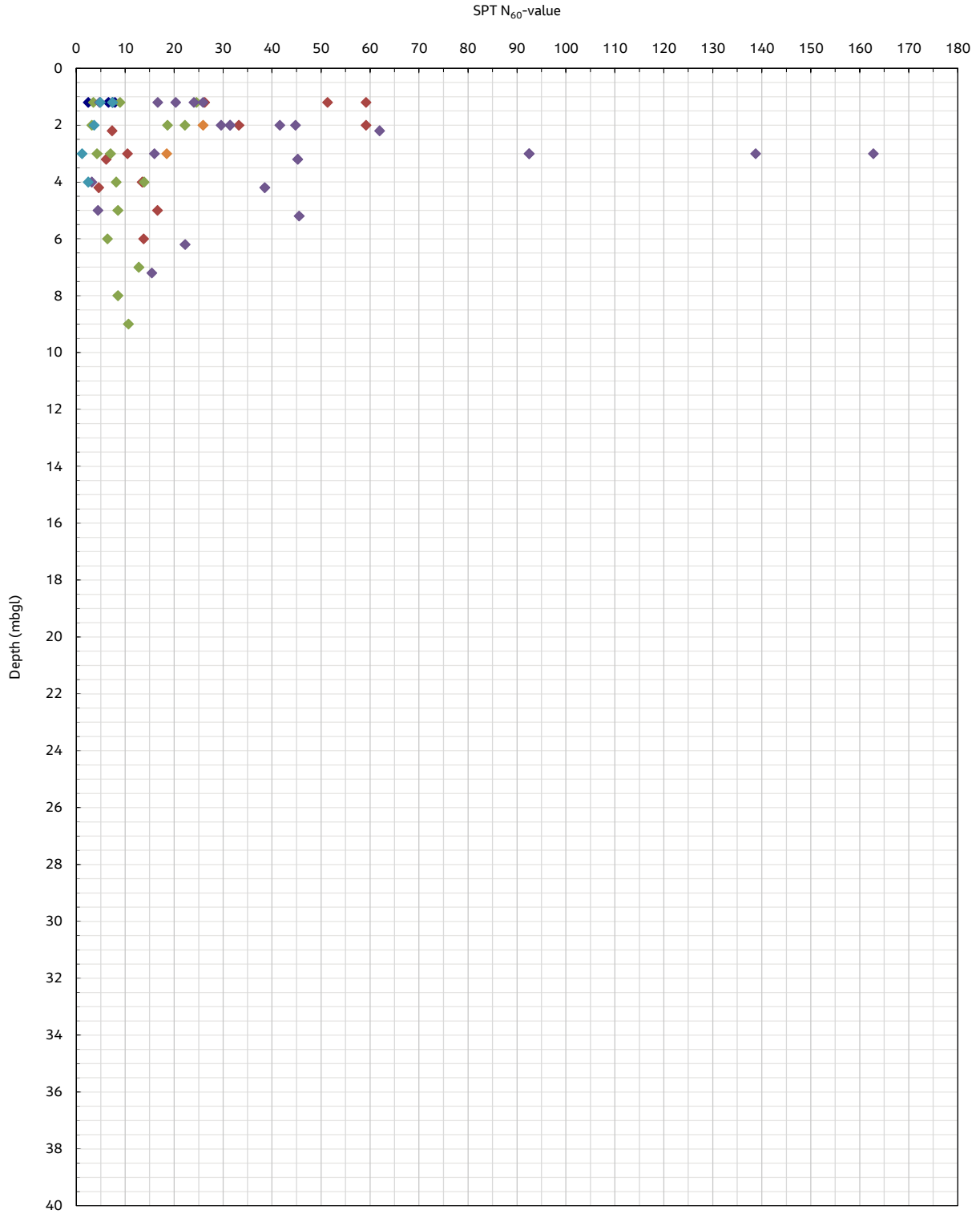


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Northeast Mound Cohesive		Figure No.:	A4



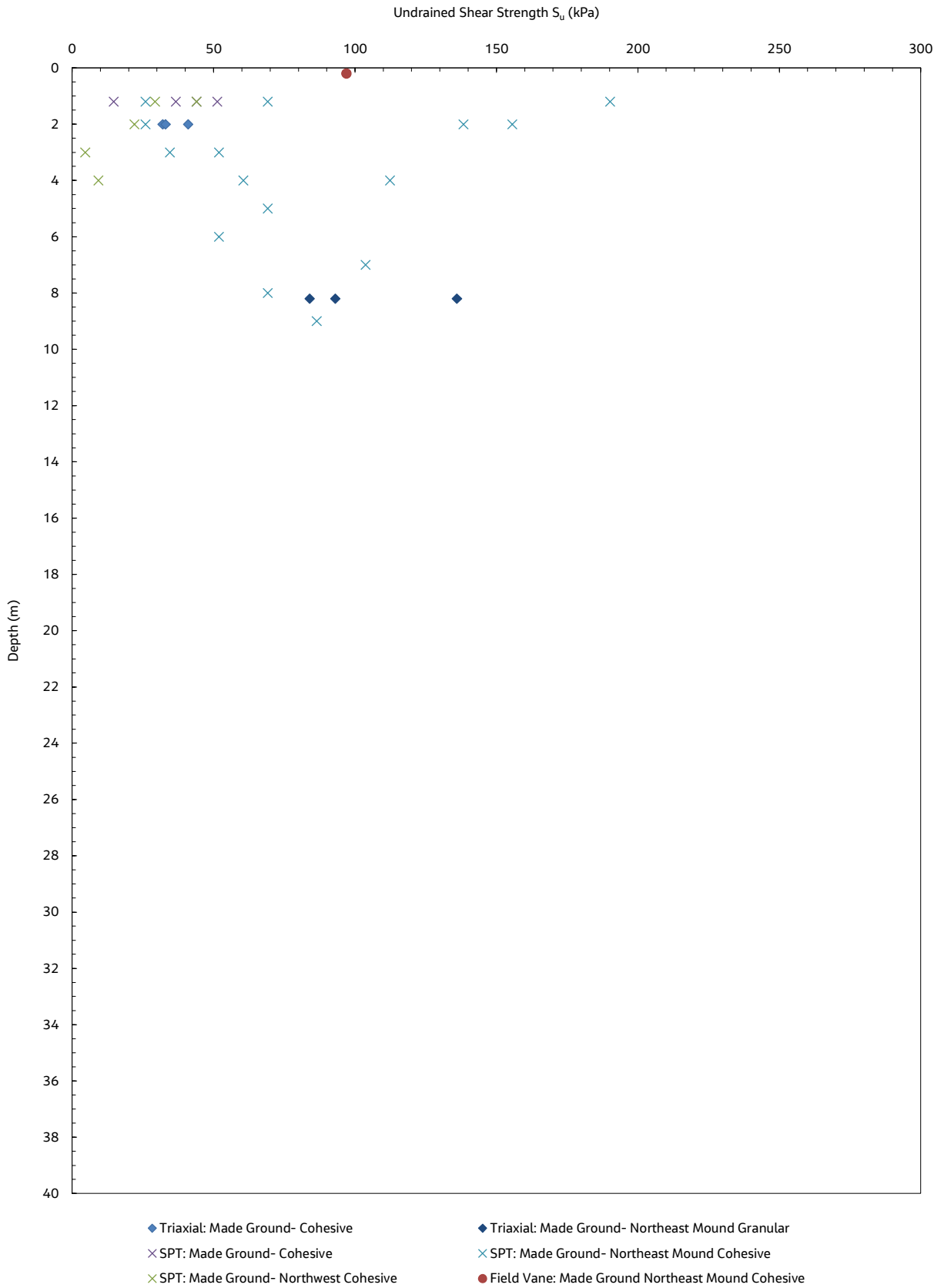
◆ Made Ground- Cohesive ◆ Made Ground- Northeast Mound Cohesive ◆ Made Ground- Northwest Cohesive

National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Plasticity Chart		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Various		Figure No.:	A5



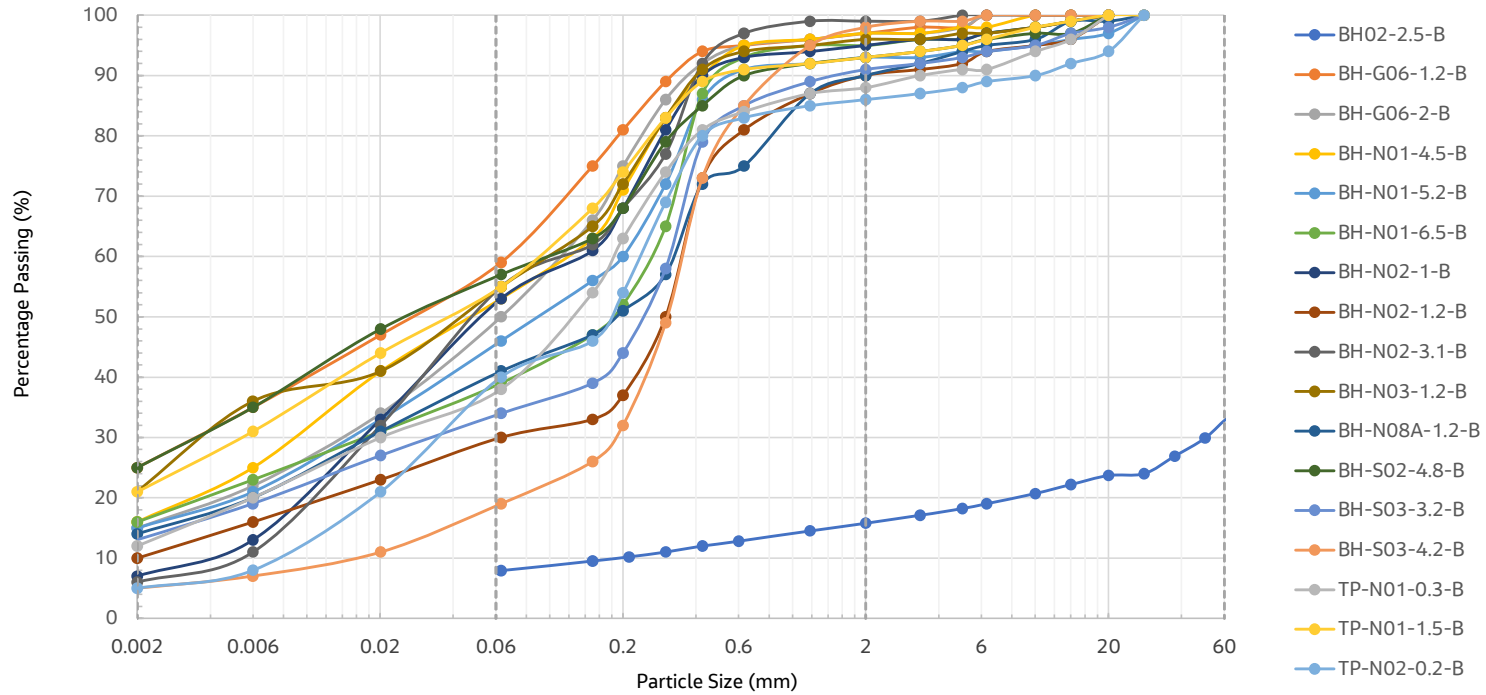
- ◆ Made Ground- Cohesive N60
- ◆ Made Ground- Granular (N1) 60
- ◆ Made Ground- Northeast Mound Cohesive N60
- ◆ Made Ground- Northeast Mound Granular (N1) 60
- ◆ Made Ground- Northwest Cohesive N60
- ◆ Made Ground- Northwest Granular (N1) 60

National Highways	M60/M62/M66 Simister Island Interchange	<h1 style="margin: 0;">Jacobs</h1>	
SPT N_{60} and (N1)60 vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground - Various		Figure No.:	A6

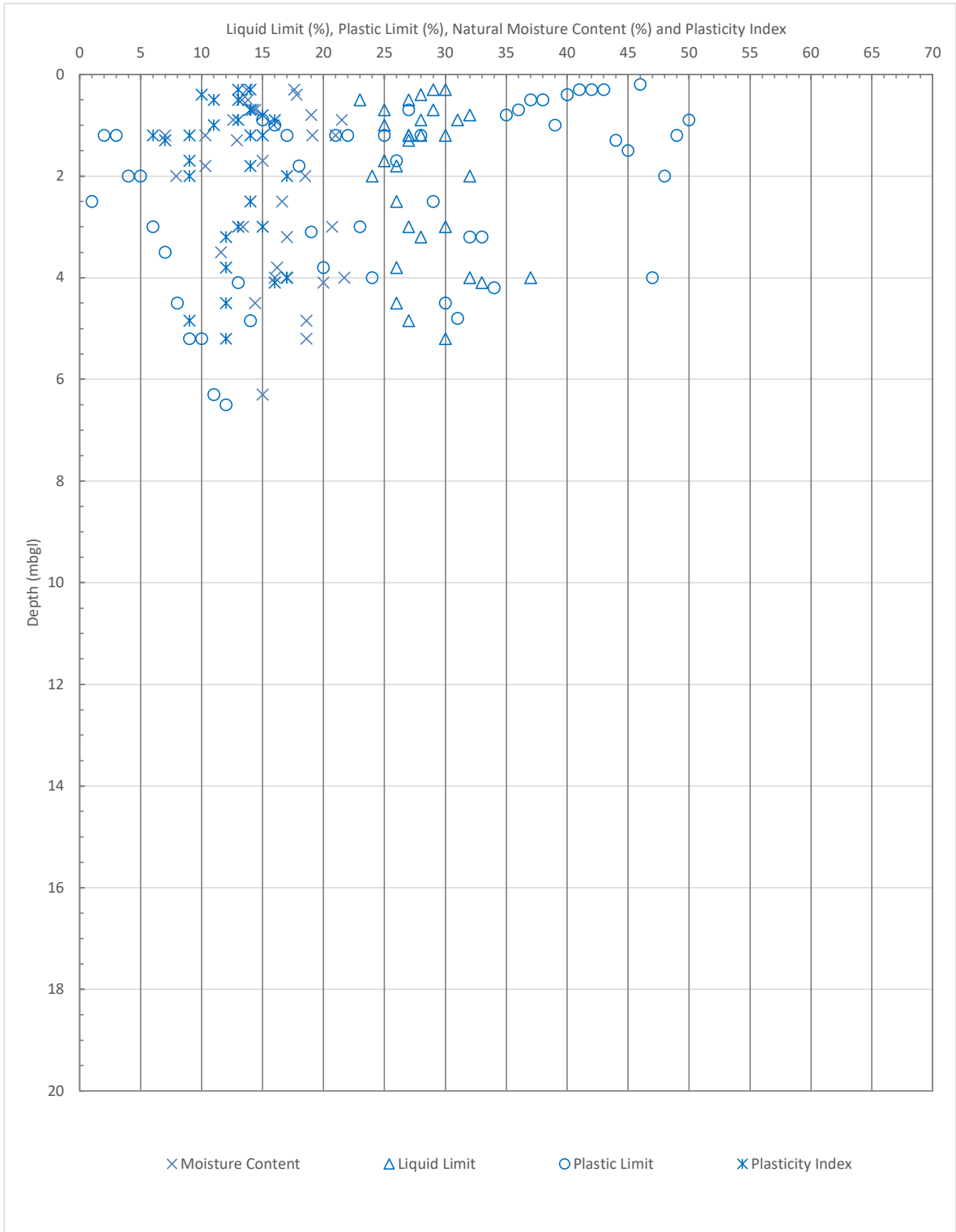


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Undrained Shear Strength vs. Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Various		Figure No.:	A7

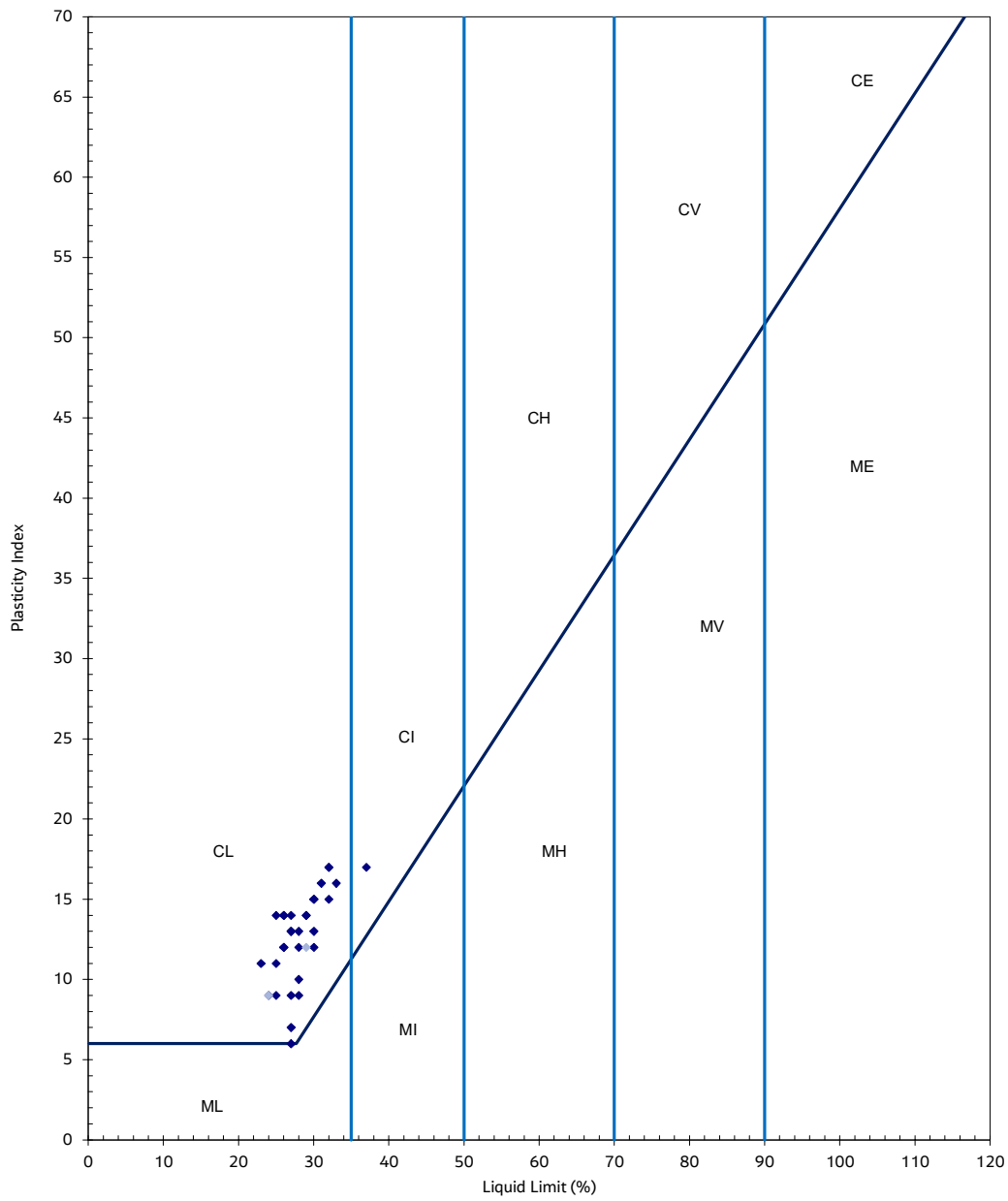
Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	



National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Engineered Fill Cohesive		Figure No.:	B1

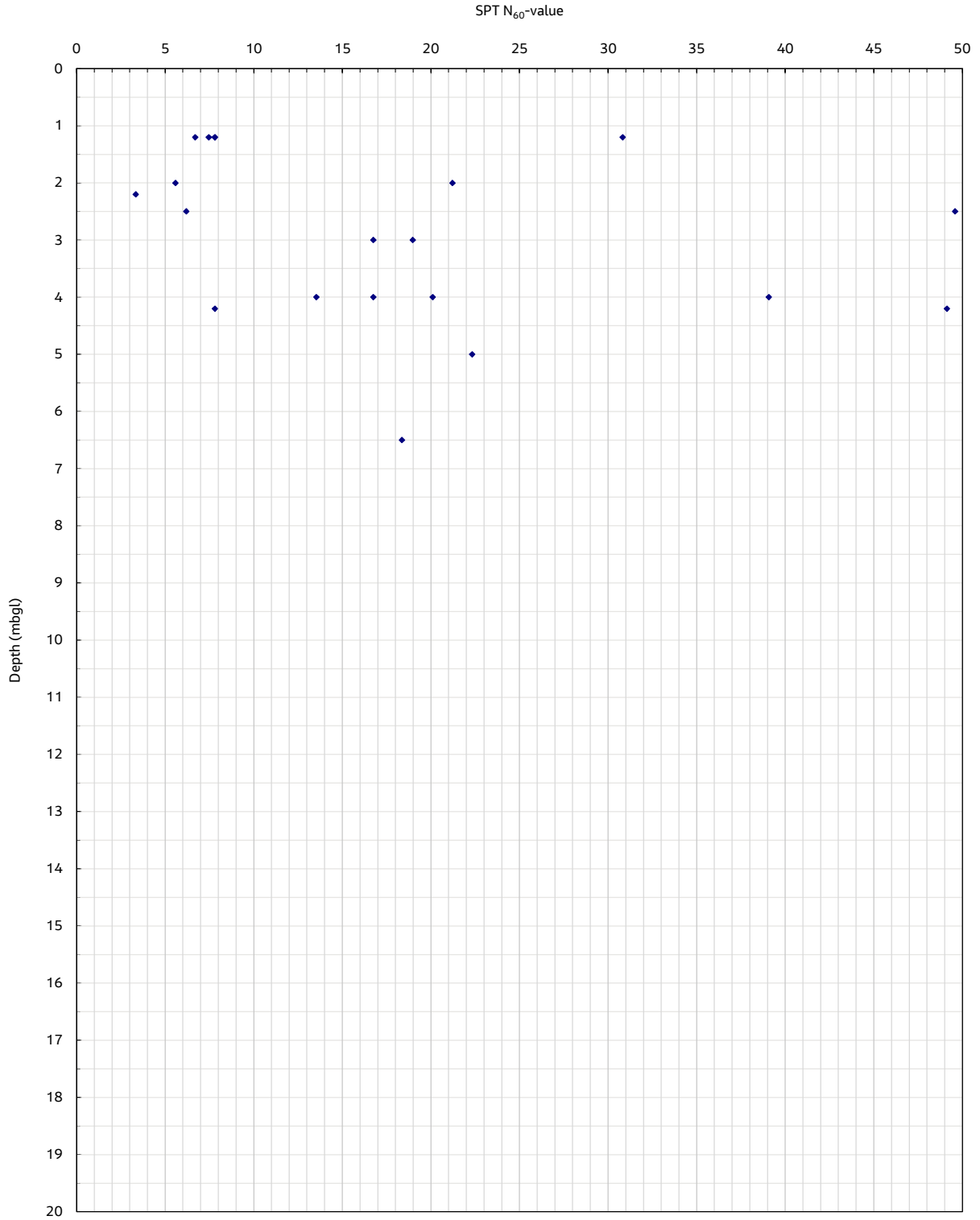


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Engineered Fill Cohesive		Figure No.:	B2



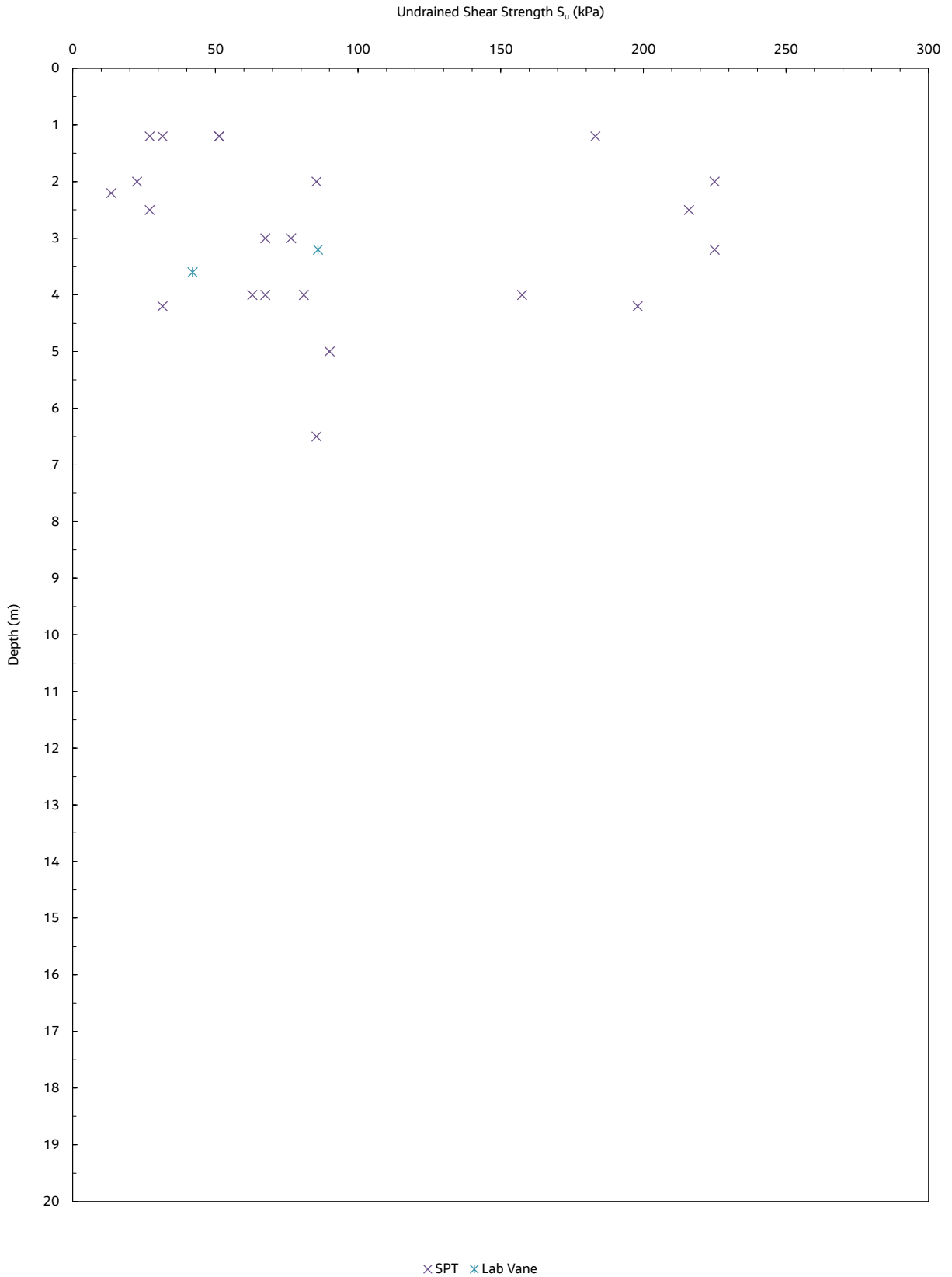
◆ Made Ground- Engineered Fill Cohesive ◇ Made Ground Engineered Fill Granular

National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Plasticity Chart		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Engineered Fill Cohesive		Figure No.:	B3



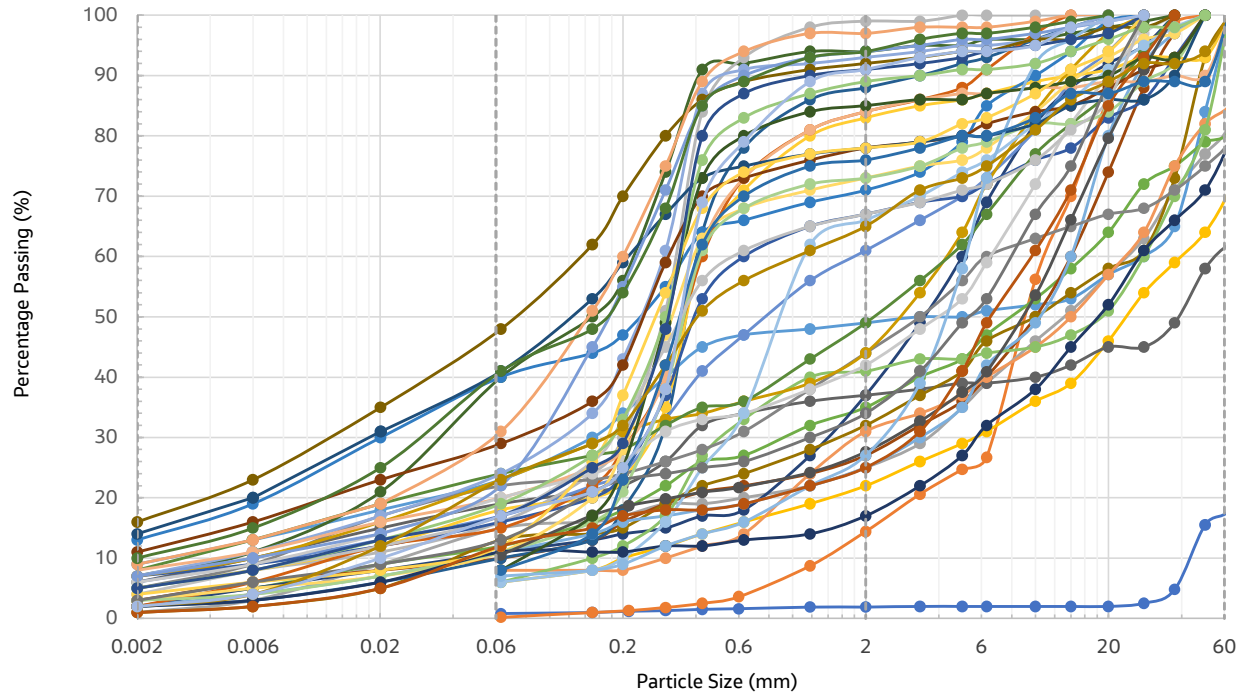
◆ SPT N₆₀

National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT N ₆₀ vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Engineered Fill Cohesive		Figure No.:	B4



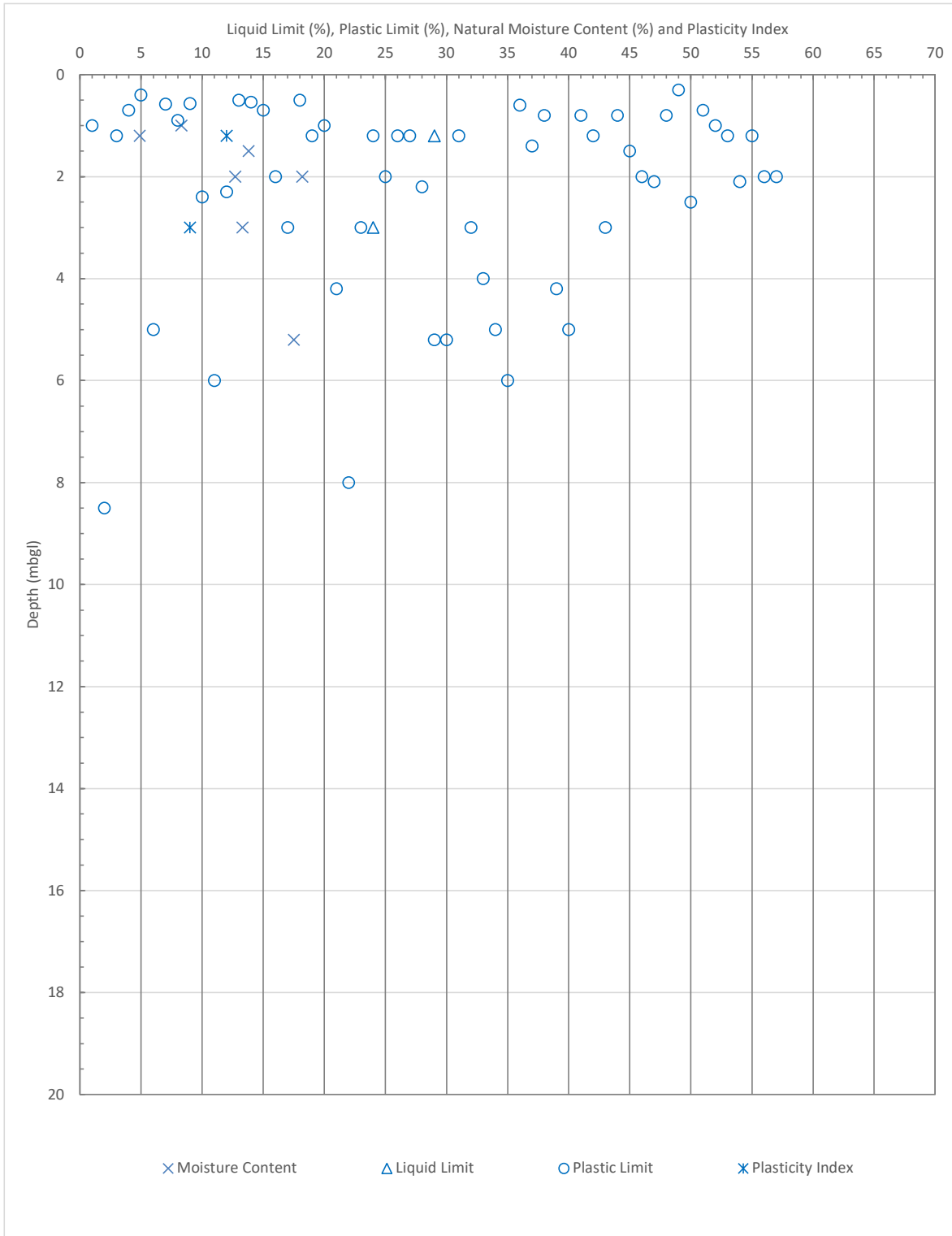
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Undrained Shear Strength vs. Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Engineered Fill Cohesive		Figure No.:	B5

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

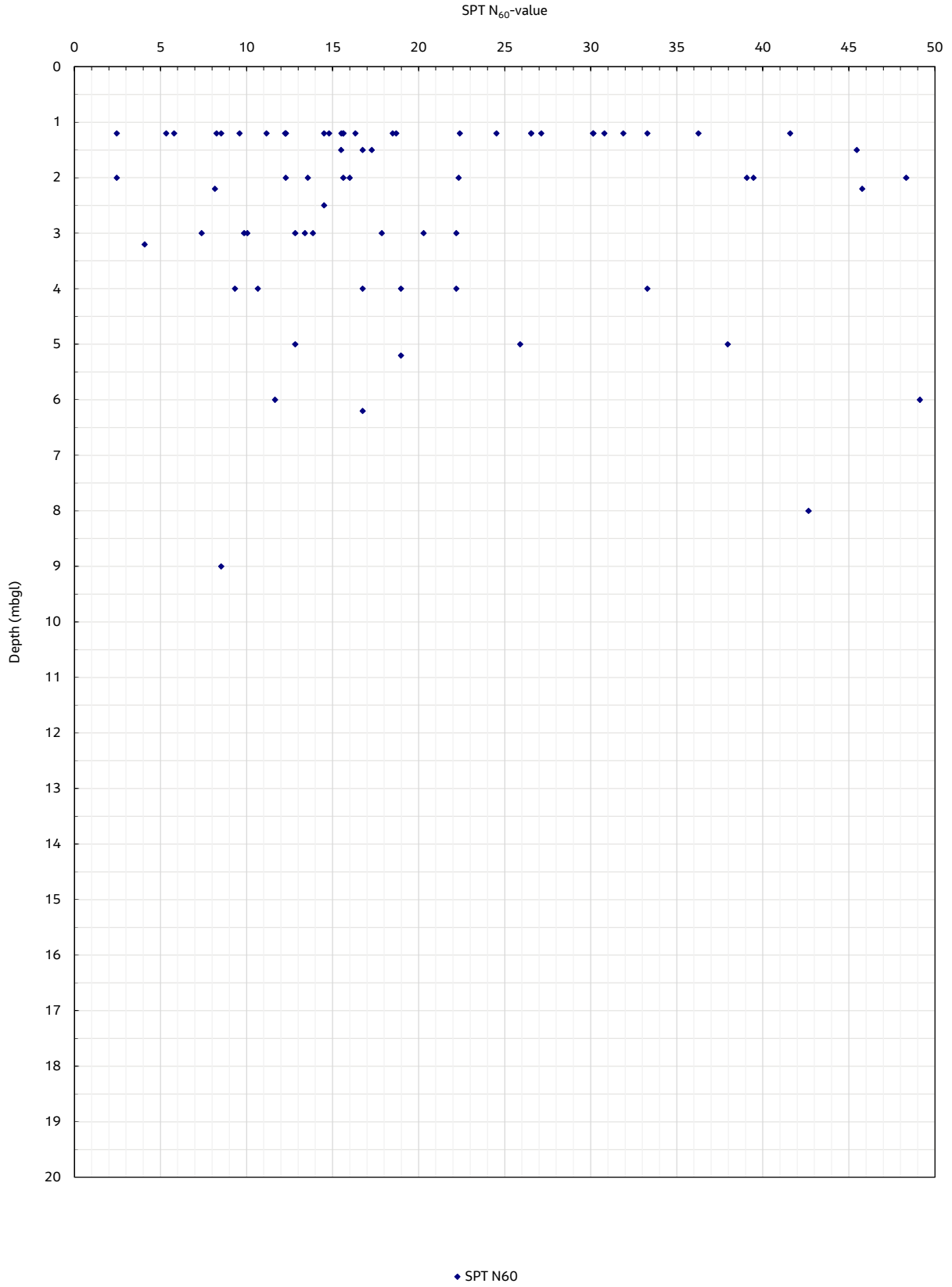


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National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Engineered Fill Granular		Figure No.:	C1

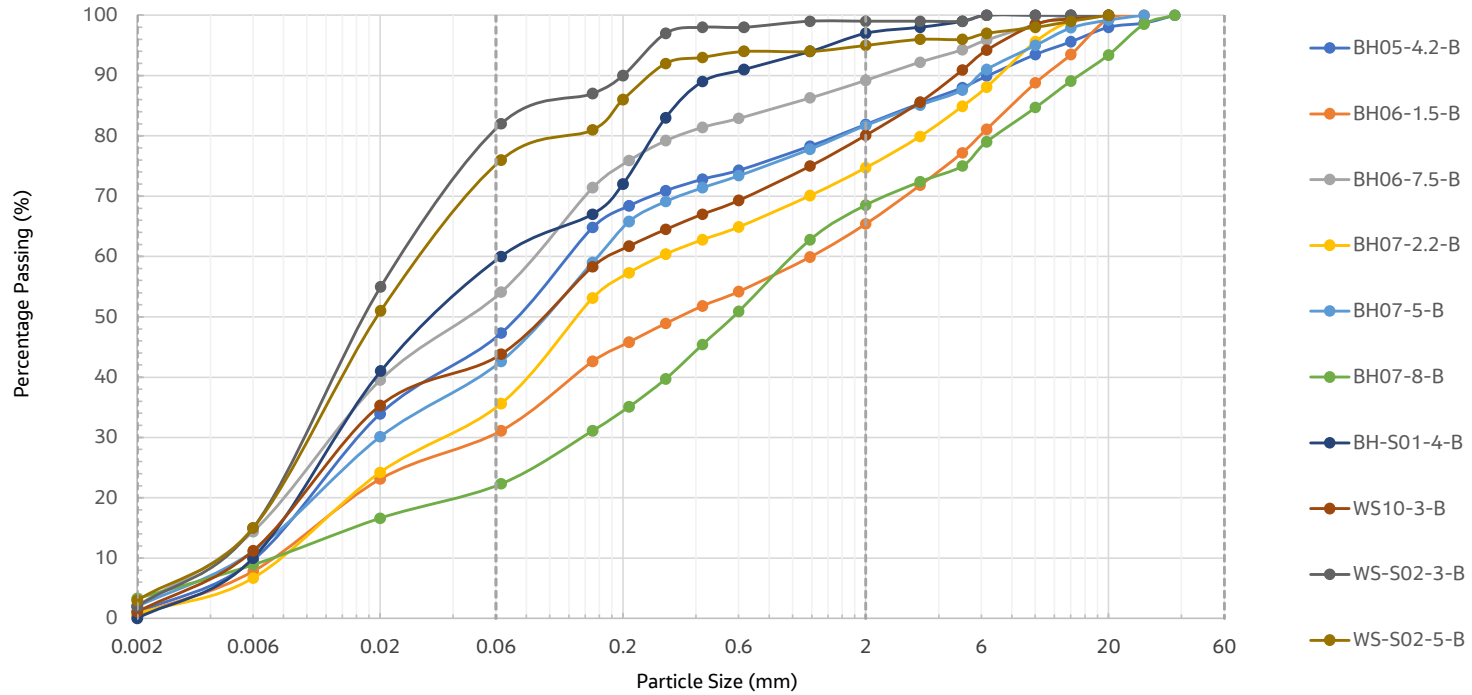


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Engineered Fill Granular		Figure No.:	C2

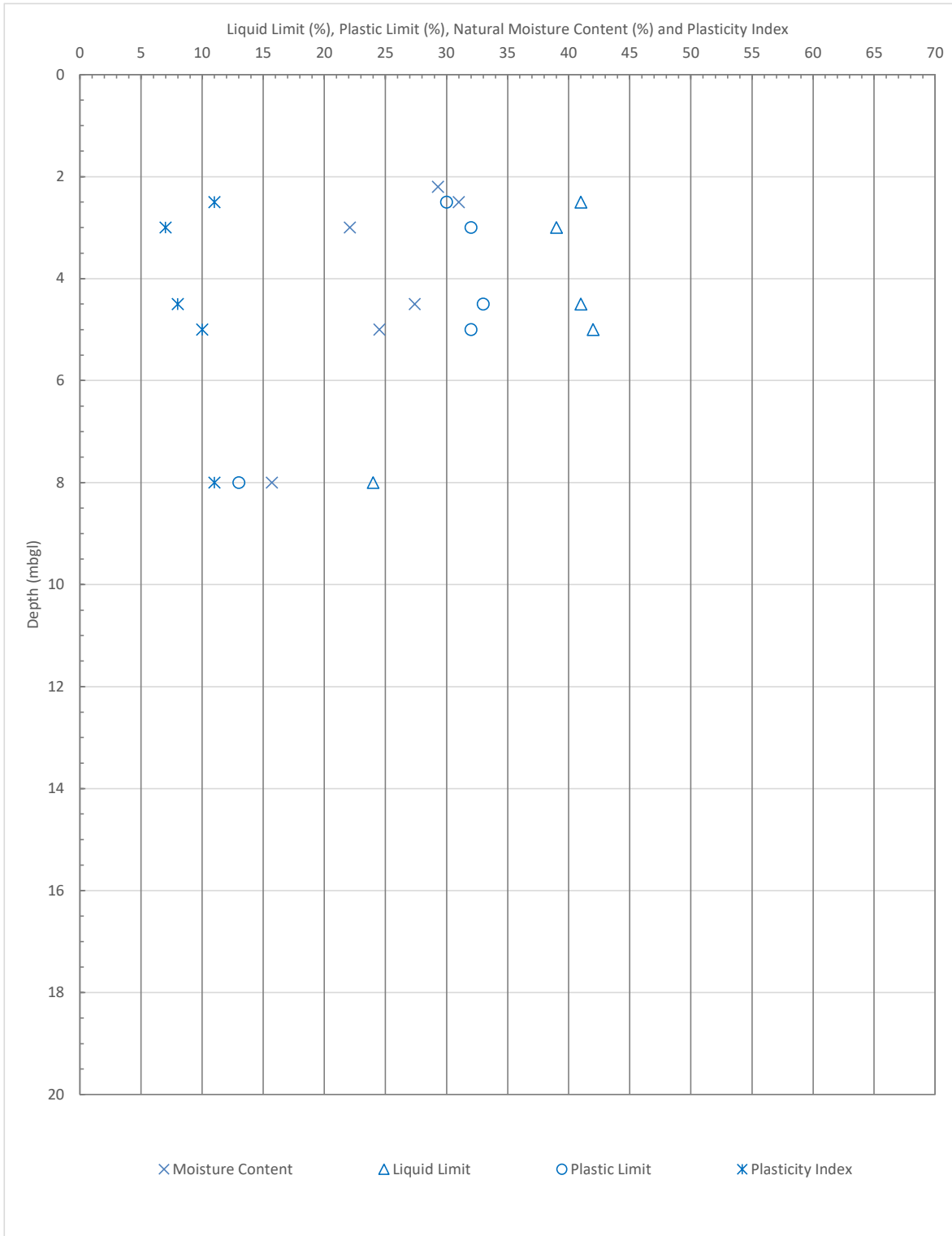


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT N ₆₀ vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Engineered Fill Granular		Figure No.:	C3

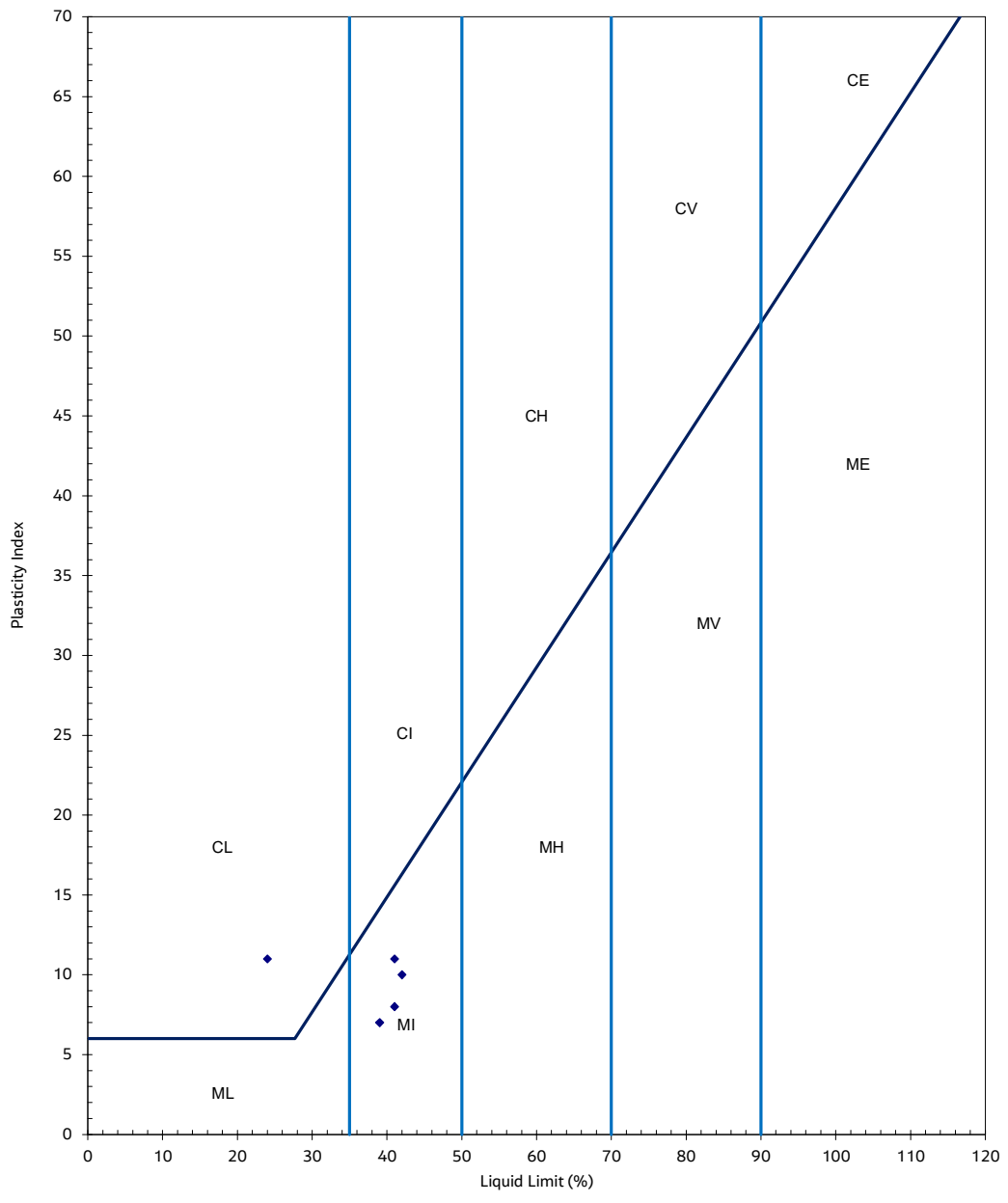
Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	



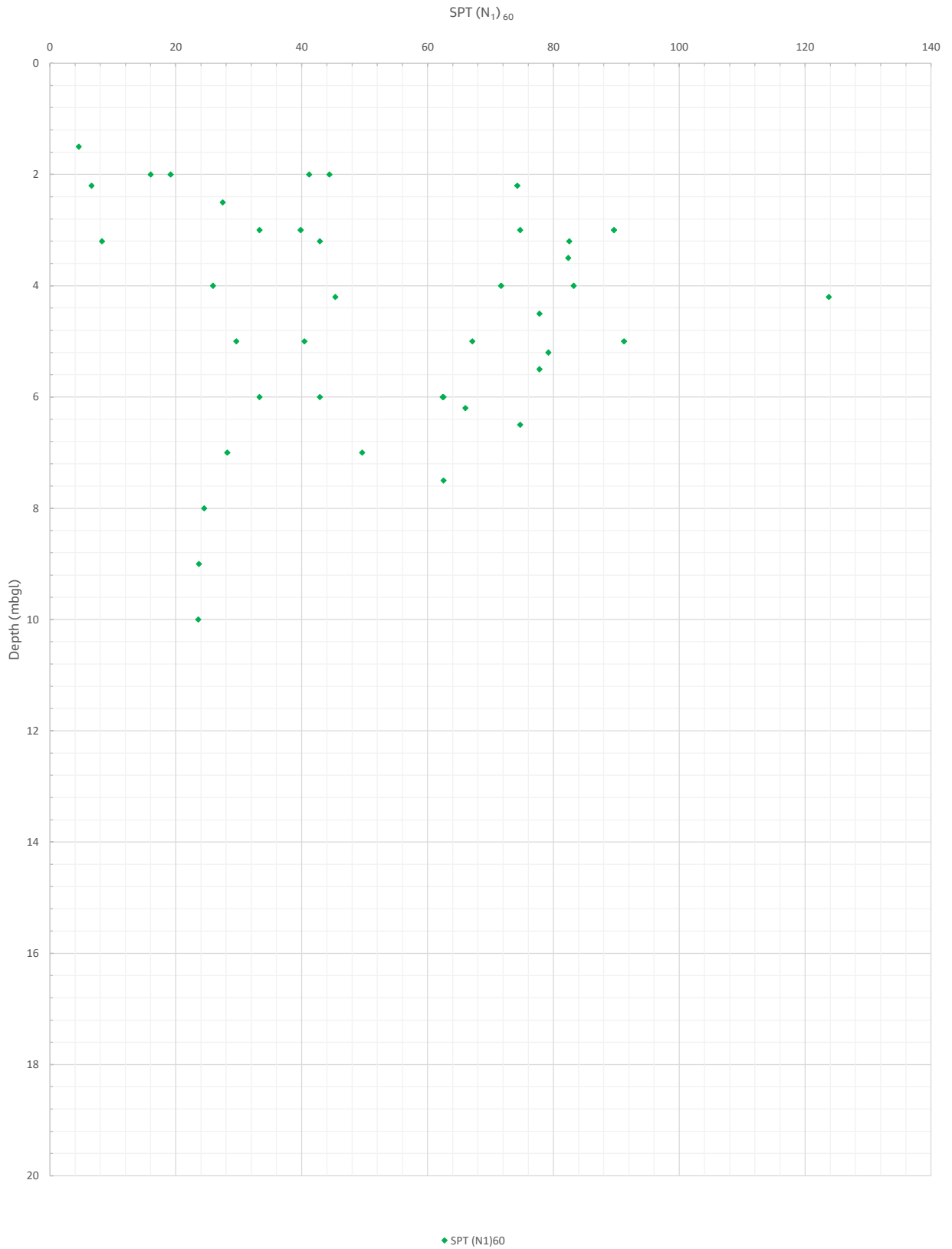
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Pulverished Fuel Ash		Figure No.:	D1



National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Pulverised Fuel Ash		Figure No.:	D2

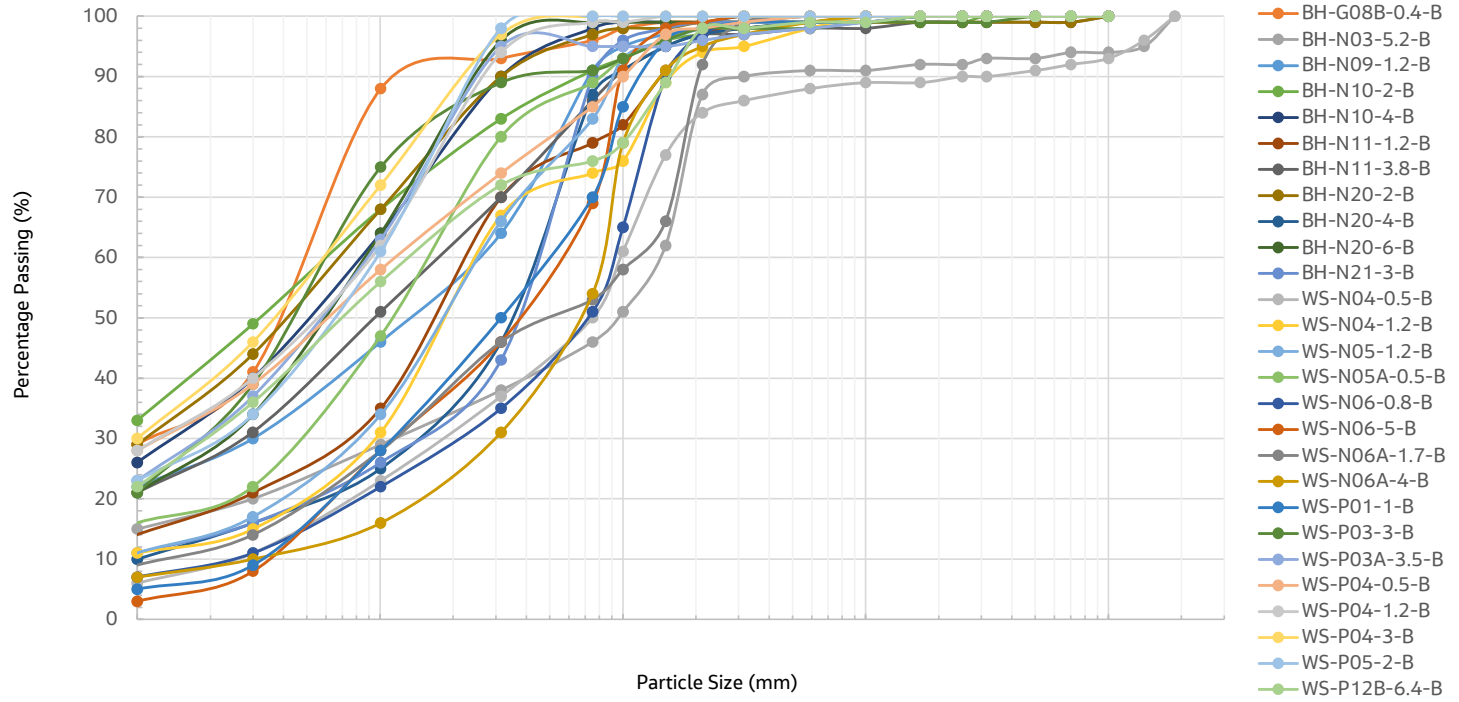


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Plasticity Chart		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Pulverished Fuel Ash		Figure No.:	D3

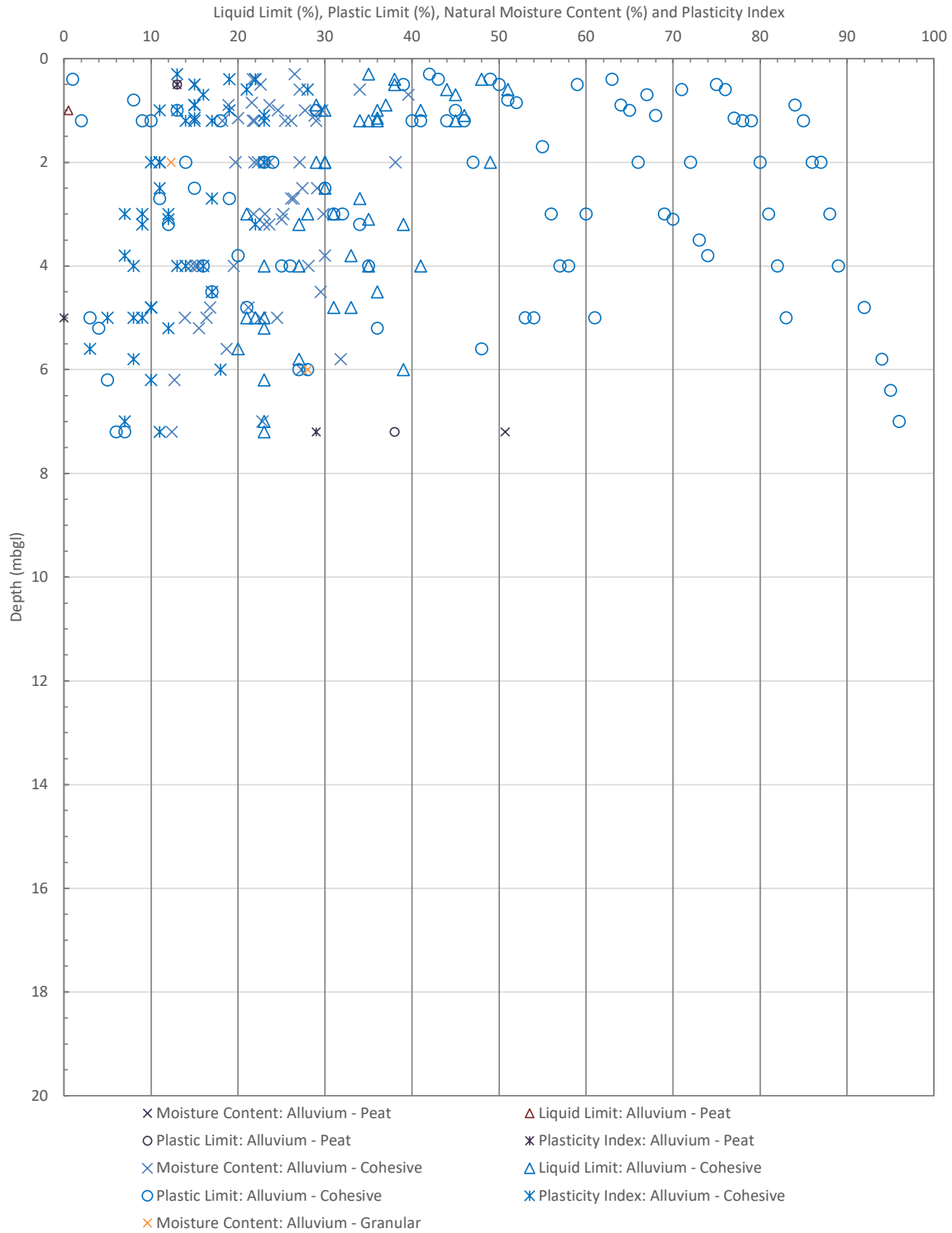


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT N ₆₀ vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Made Ground- Pulverished Fuel Ash		Figure No.:	D4

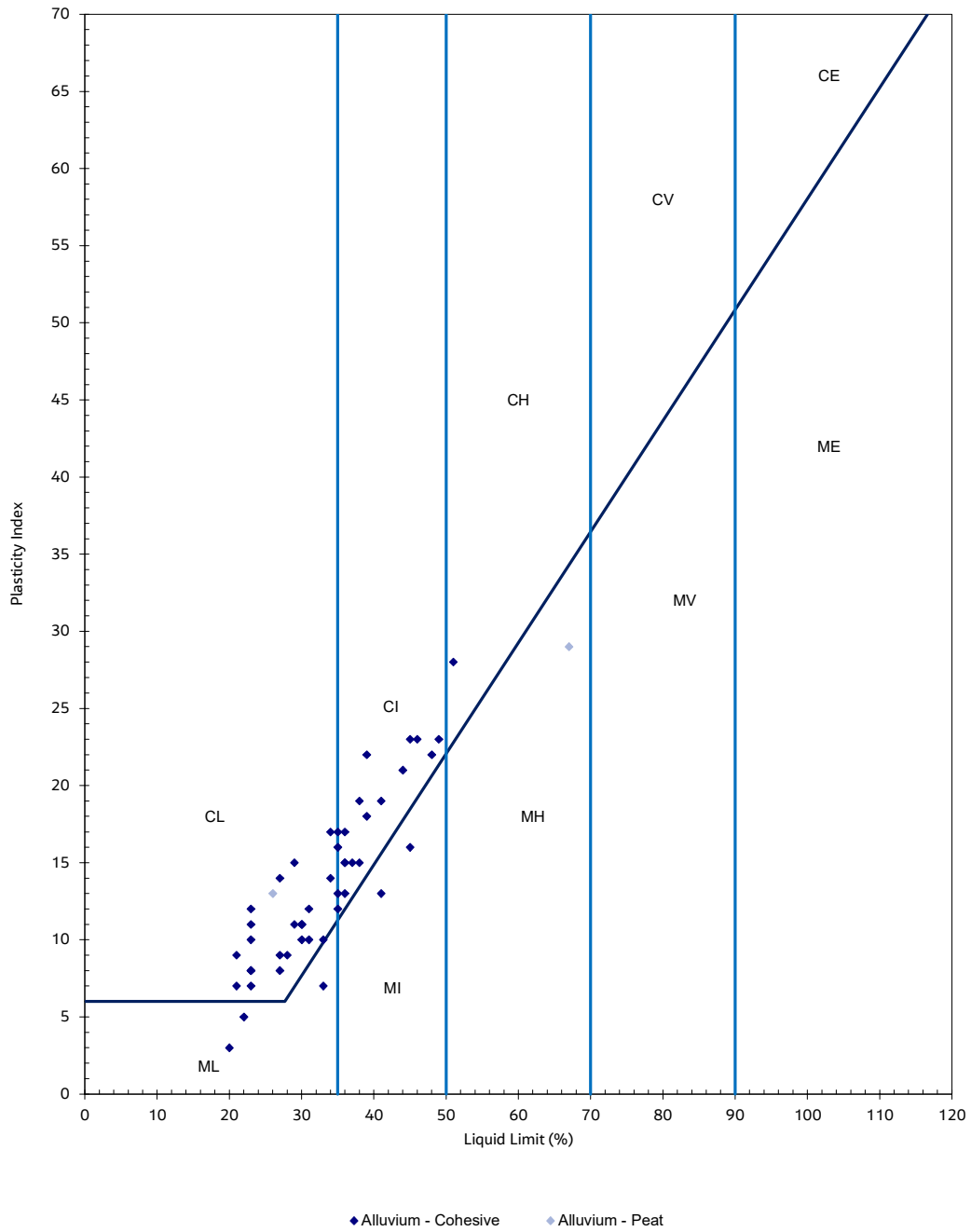
Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	



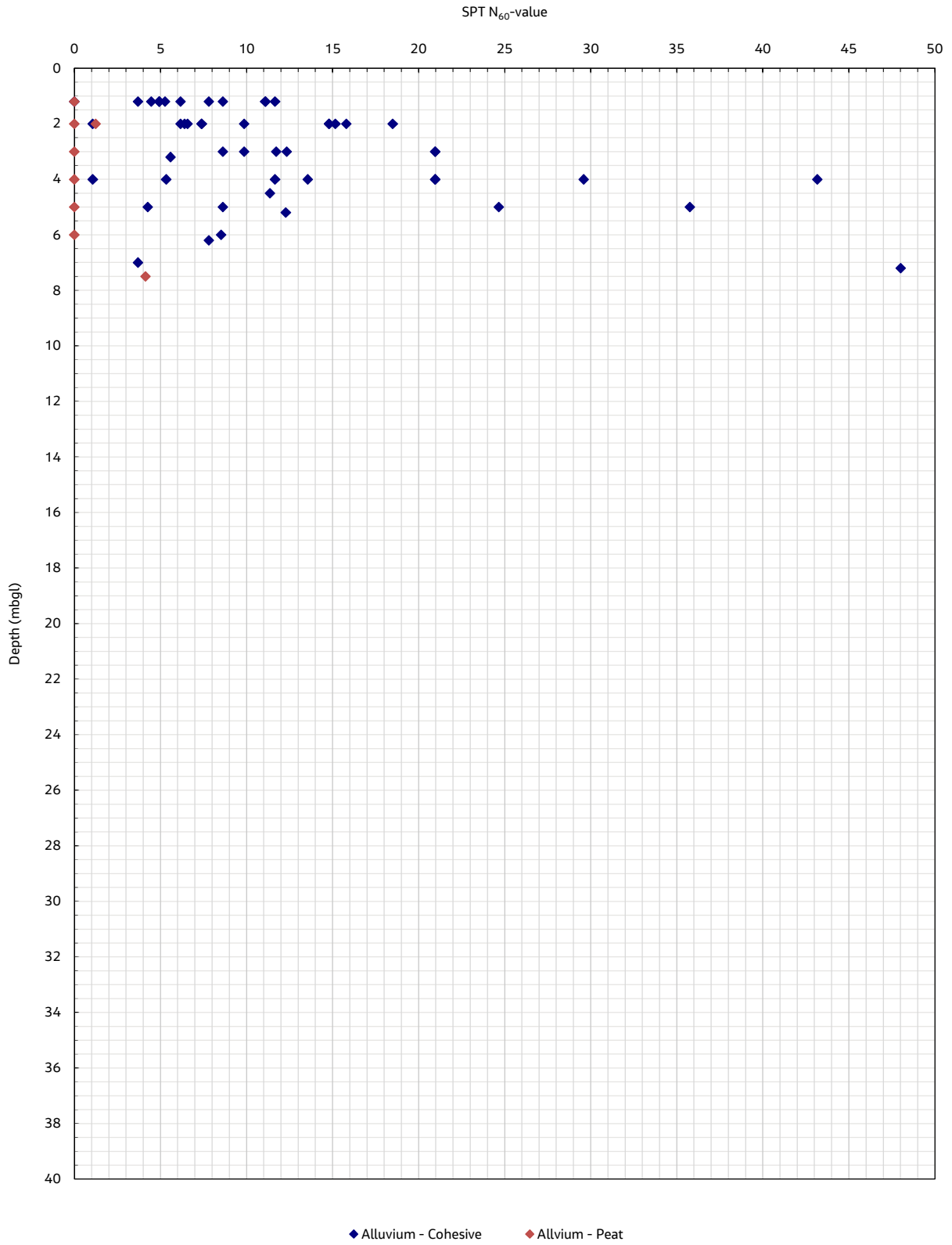
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Alluvium - Cohesive		Figure No.:	E1



National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Alluvium - Peat, Cohesive & Granular		Figure No.:	E2

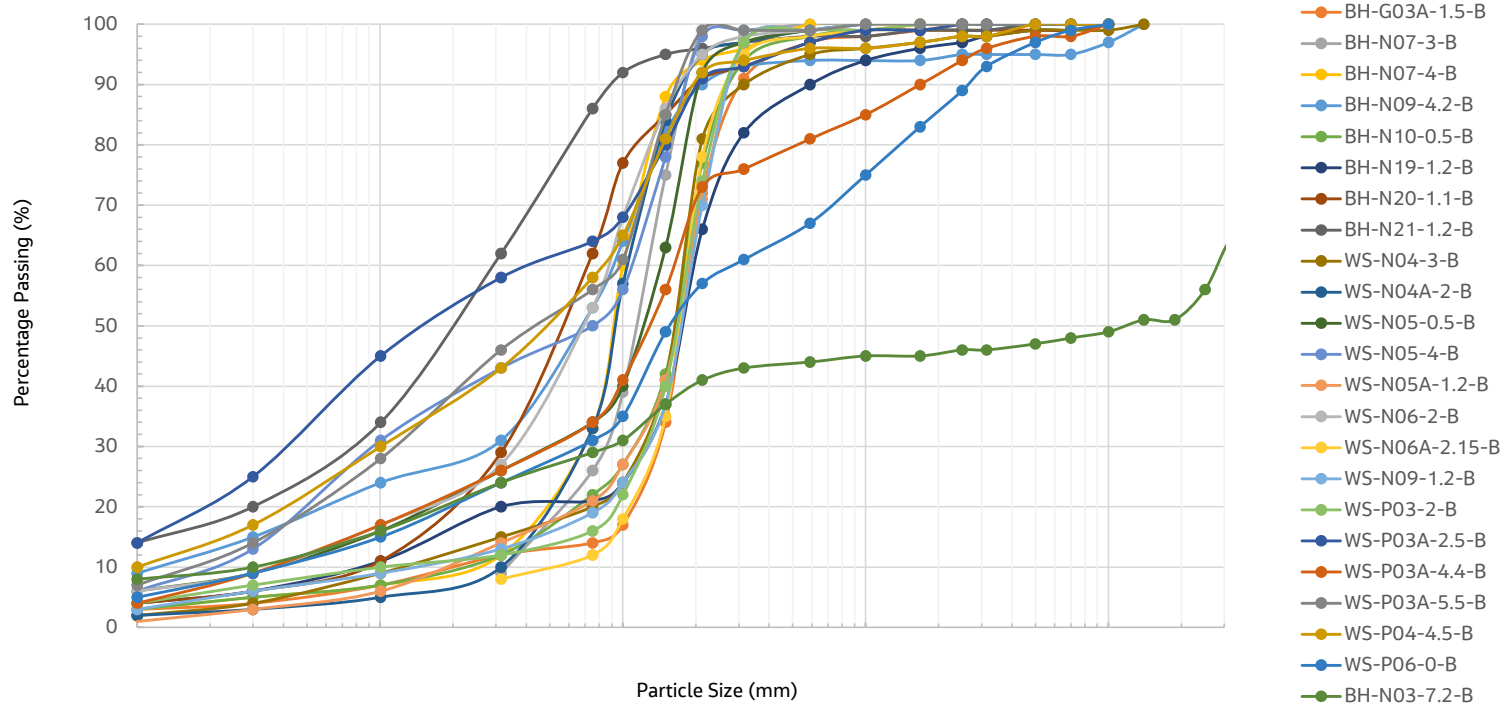


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Plasticity Chart		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Alluvium - Peat & Cohesive		Figure No.:	E3

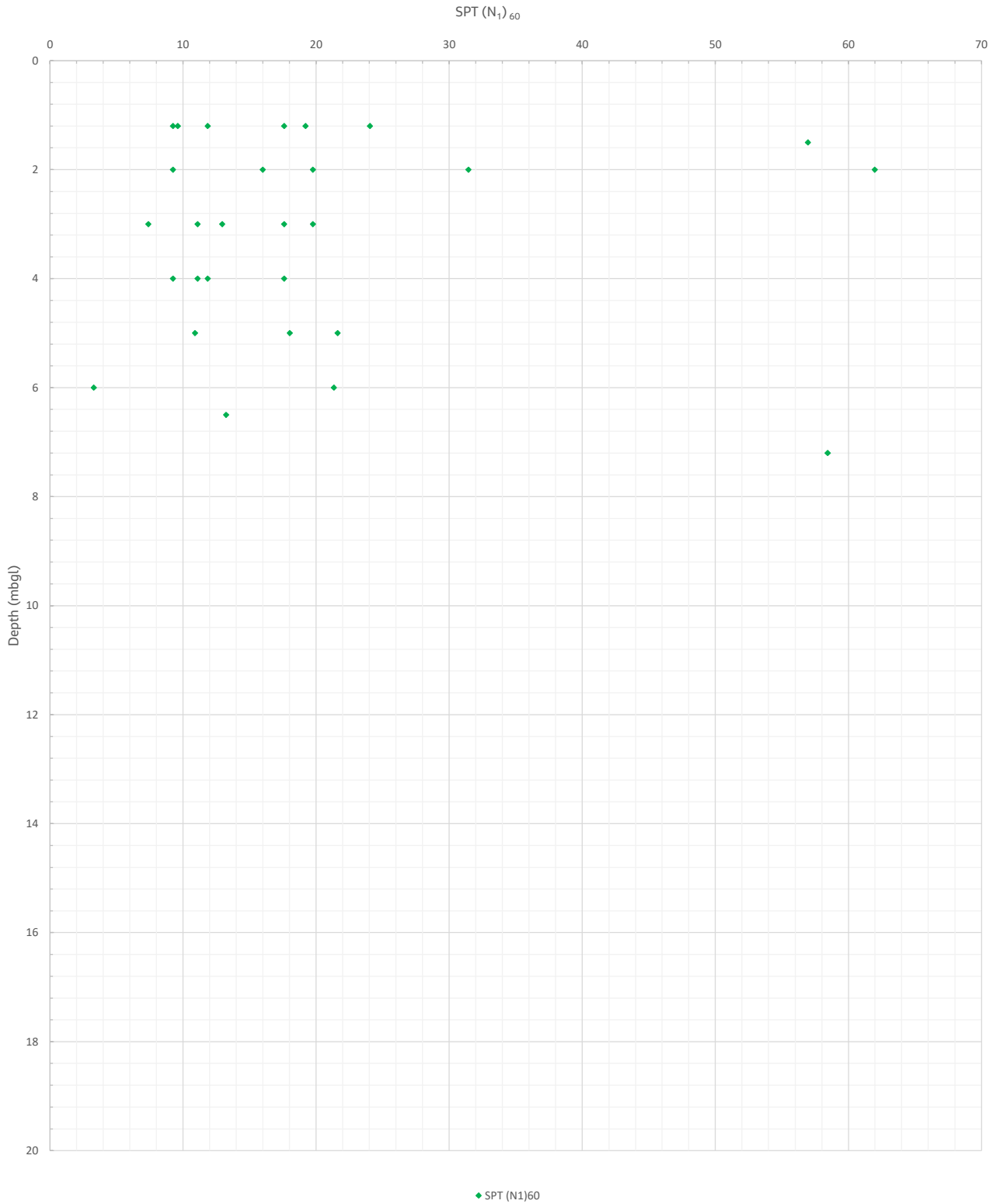


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT N_{60} vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Alluvium - Peat & Cohesive		Figure No.:	E4

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

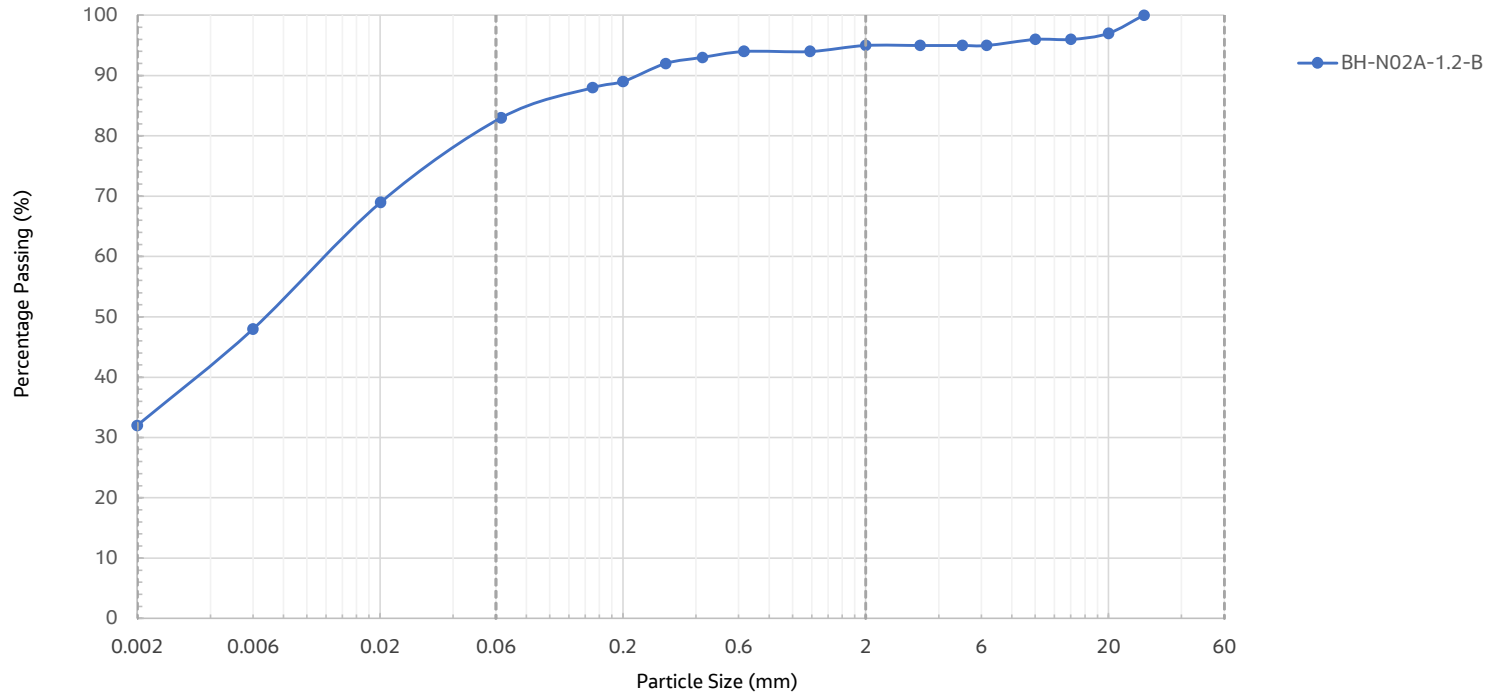


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Alluvium - Granular		Figure No.:	F1

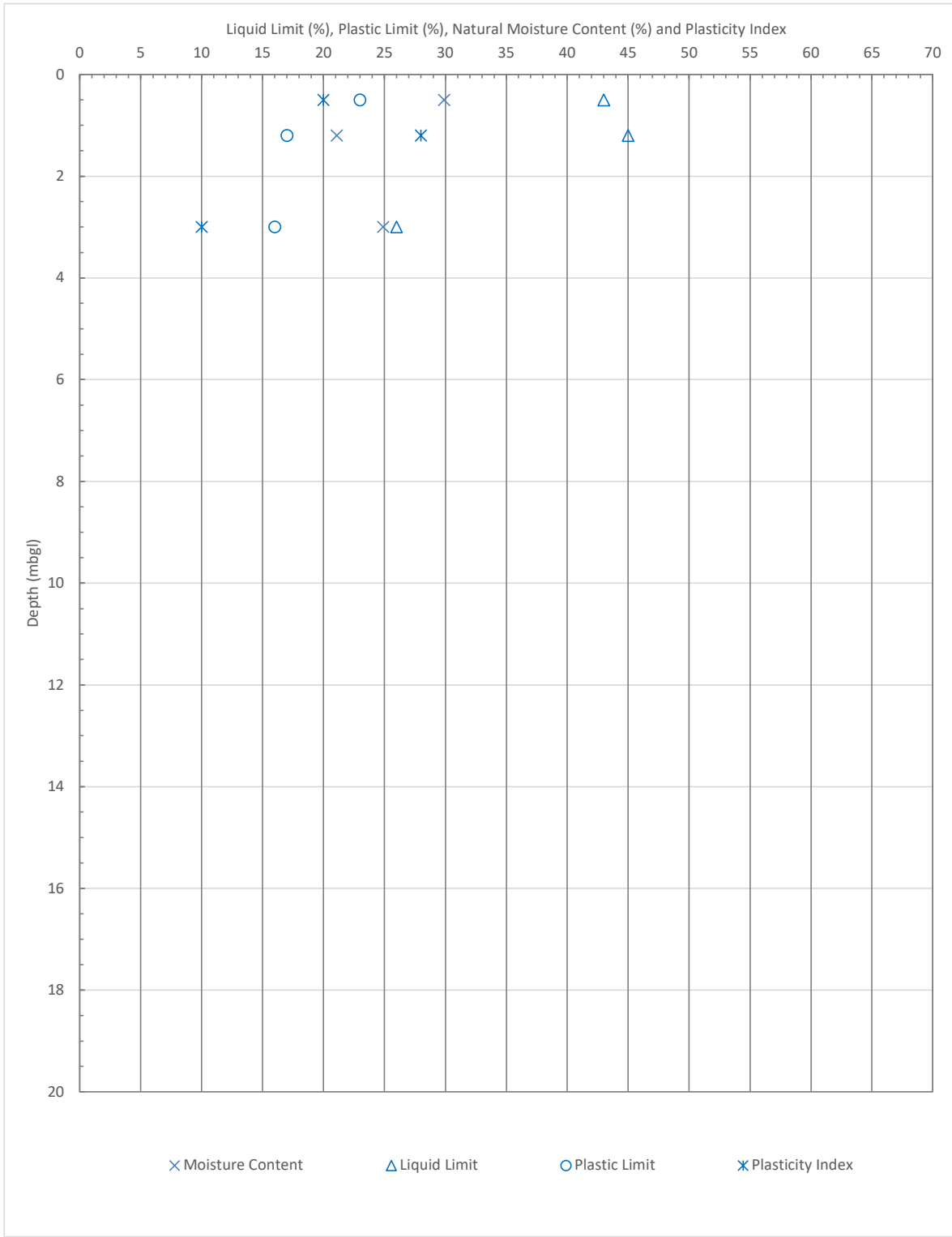


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT $N(1)_{60}$ vs. Elevation		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Alluvium - Granular		Figure No.:	F2

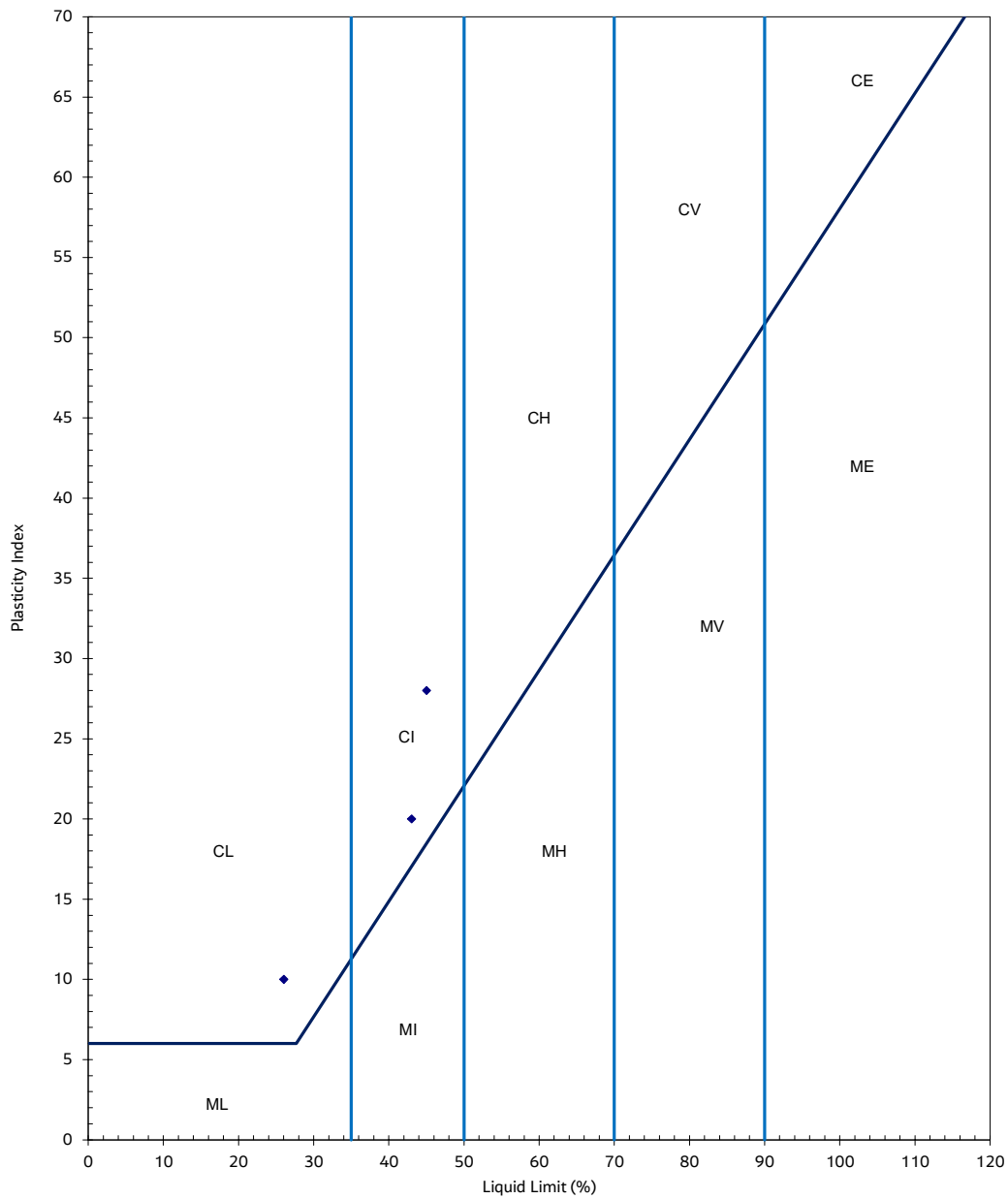
Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	



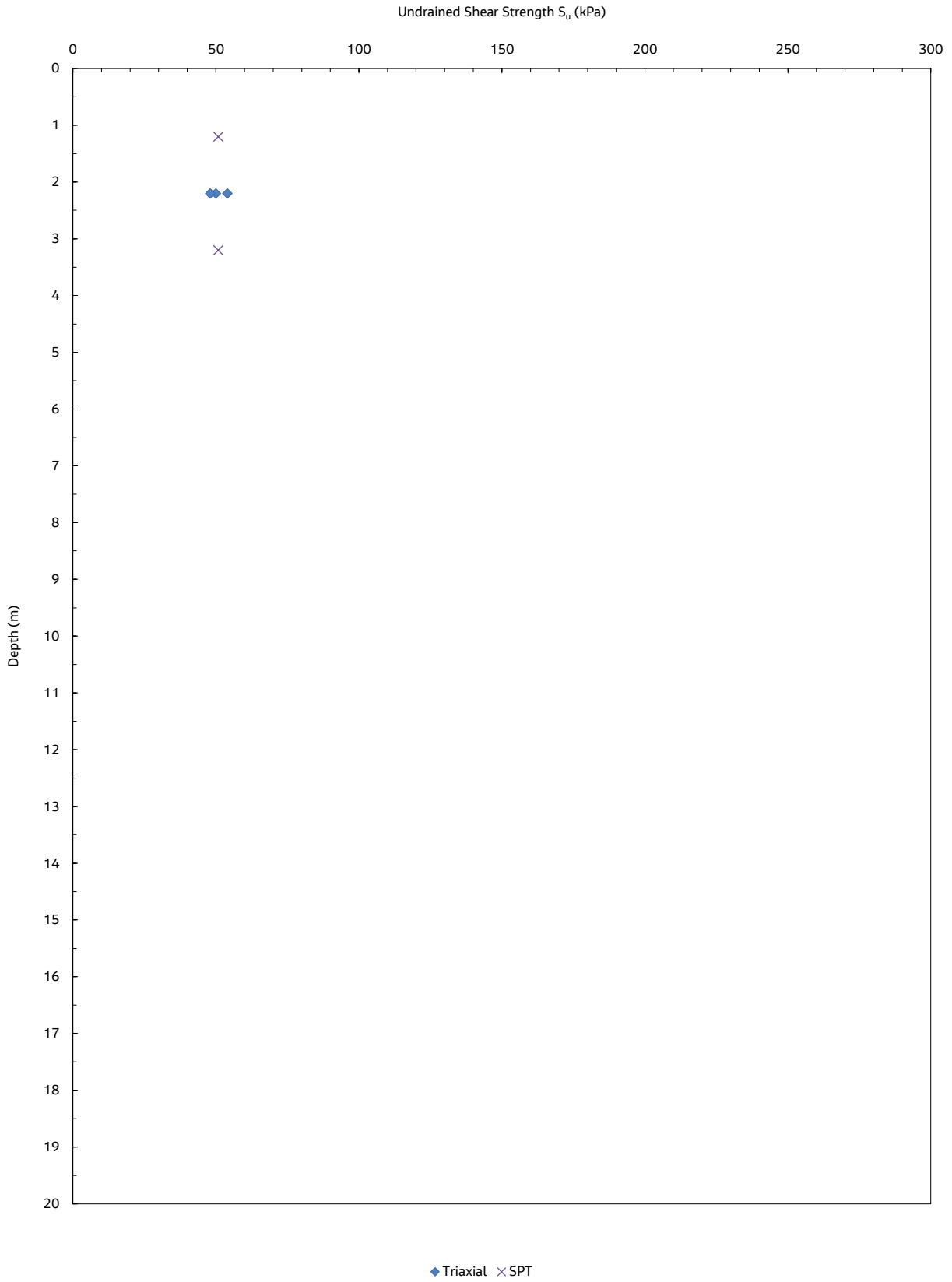
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciolacustrine Deposits		Figure No.:	G1



National Highways	M60/M62/M66 Simister Island Interchange	<h1 style="margin: 0;">Jacobs</h1>	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciolacustrine Deposits		Figure No.:	G2

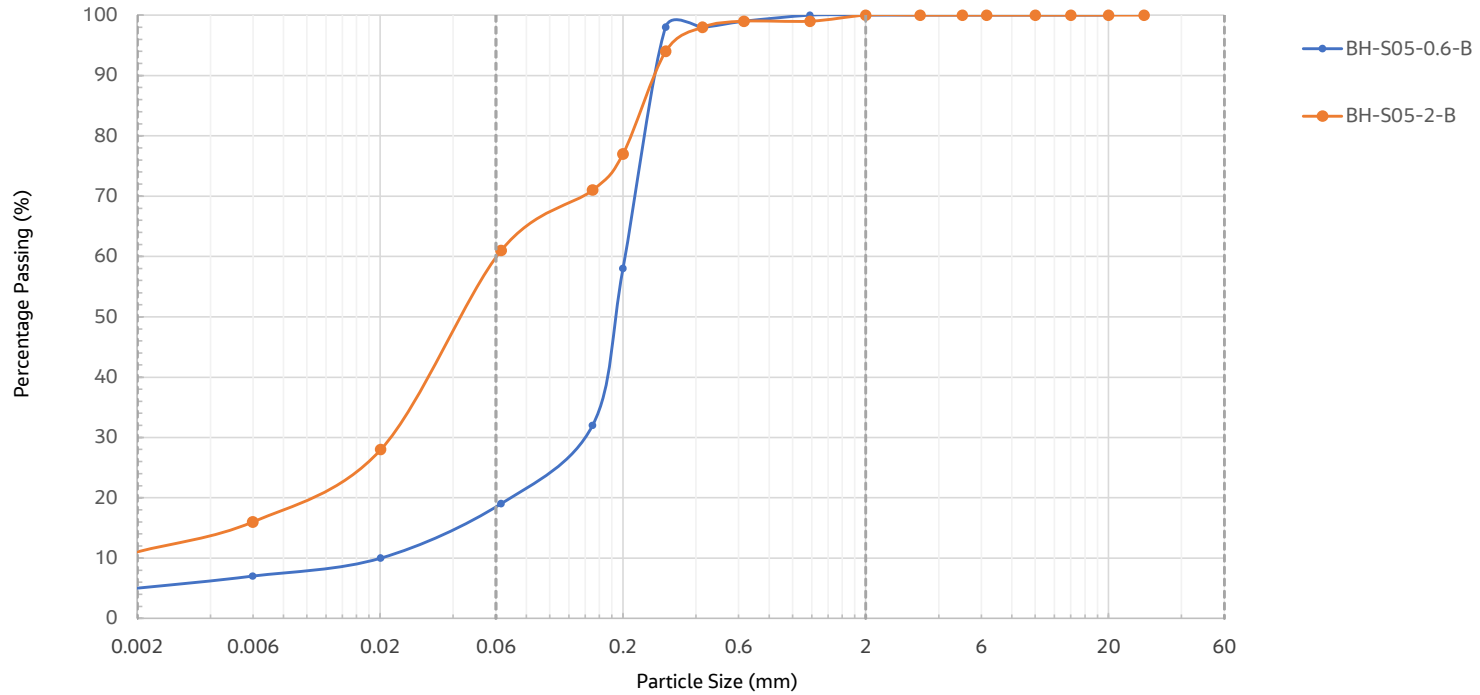


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Plasticity Chart		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciolacustrine Deposits		Figure No.:	G3

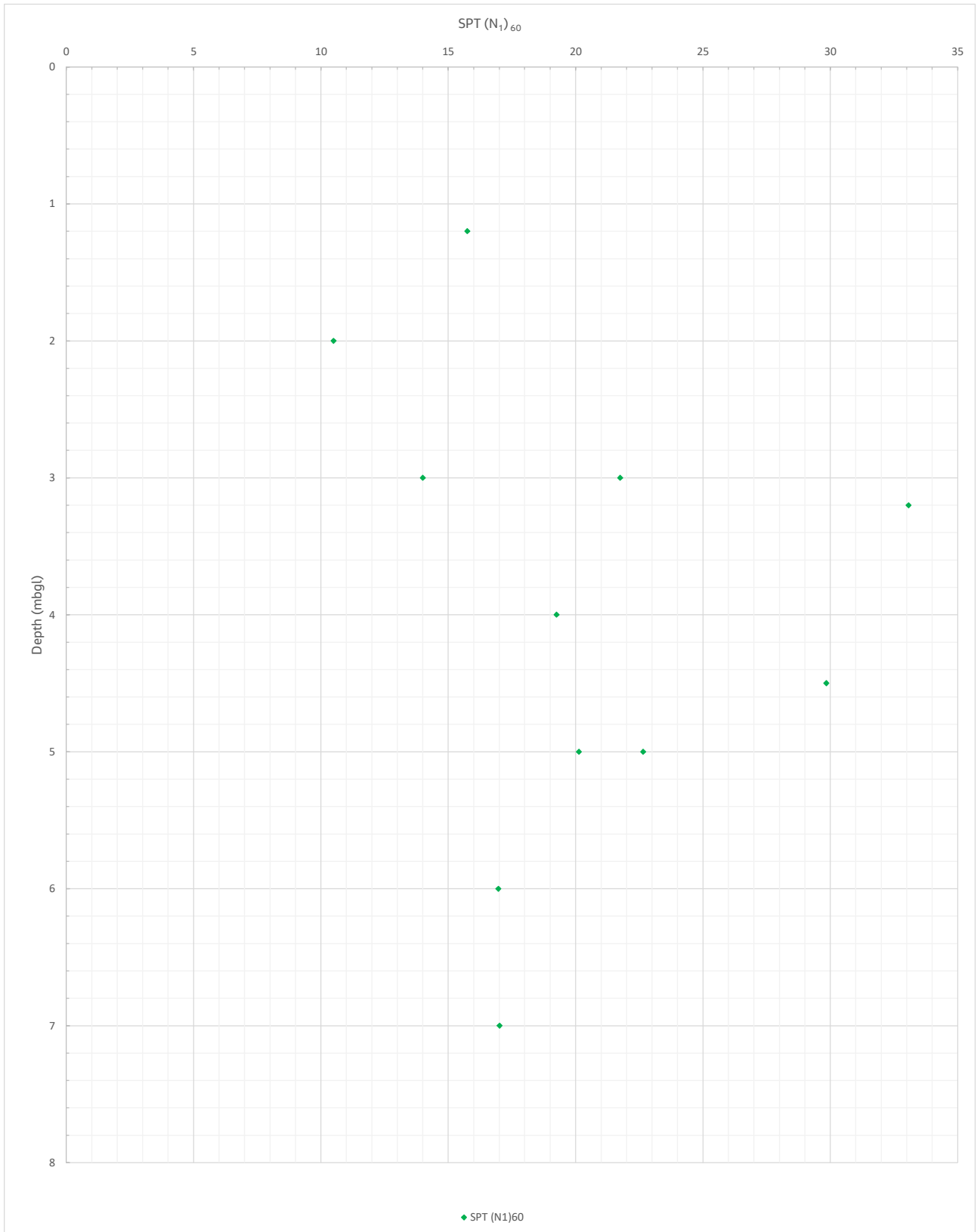


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Undrained Shear Strength vs. Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciolacustrine Deposits		Figure No.:	G4

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

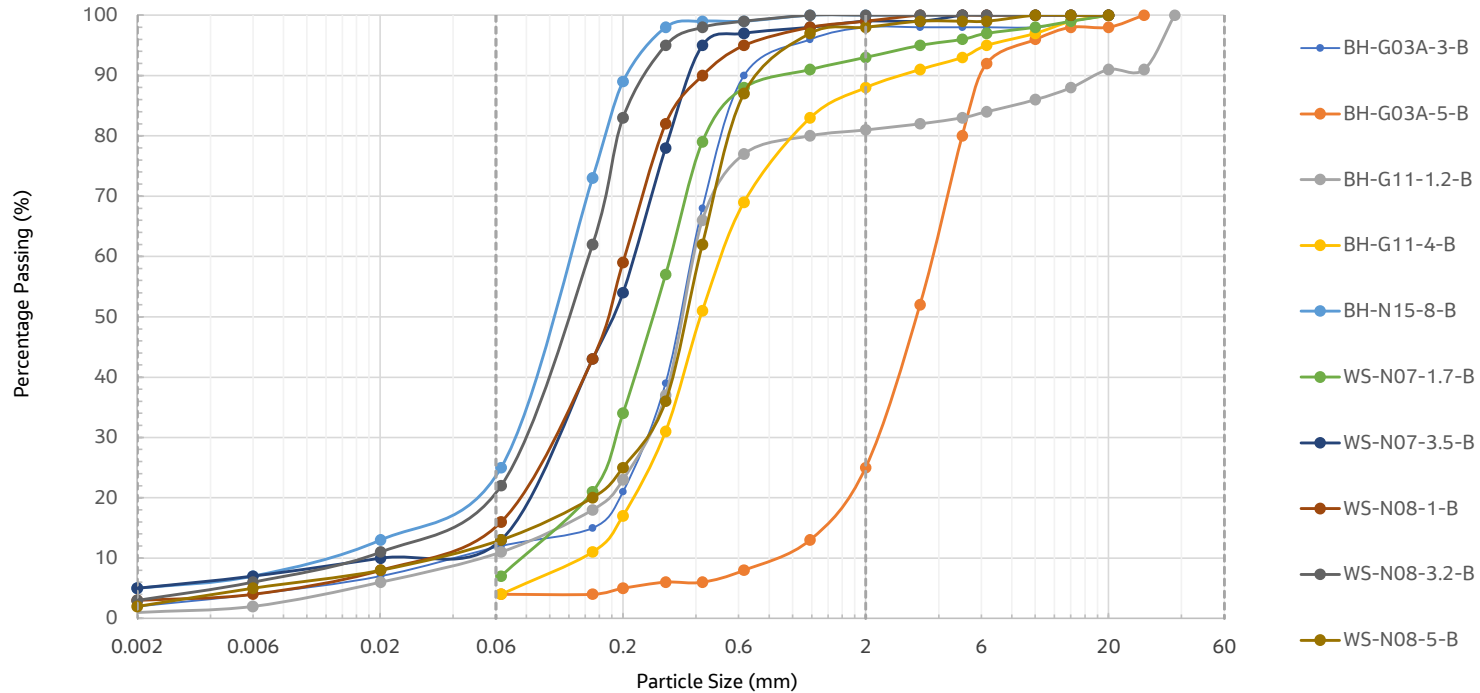


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Hummocky Glacial Deposits		Figure No.:	H1

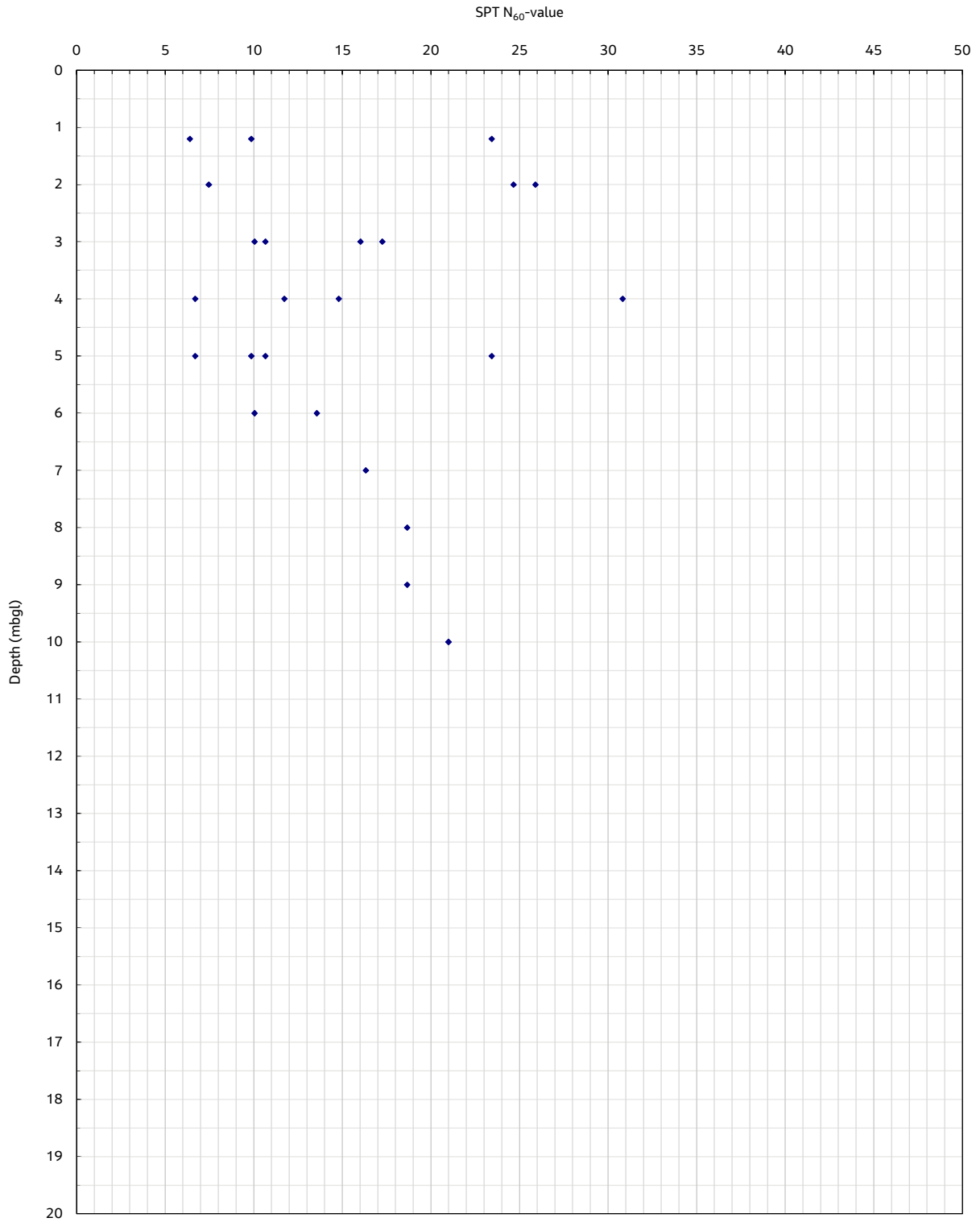


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT (N ₁) ₆₀ vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Hummocky Glacial Deposits		Figure No.:	H2

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

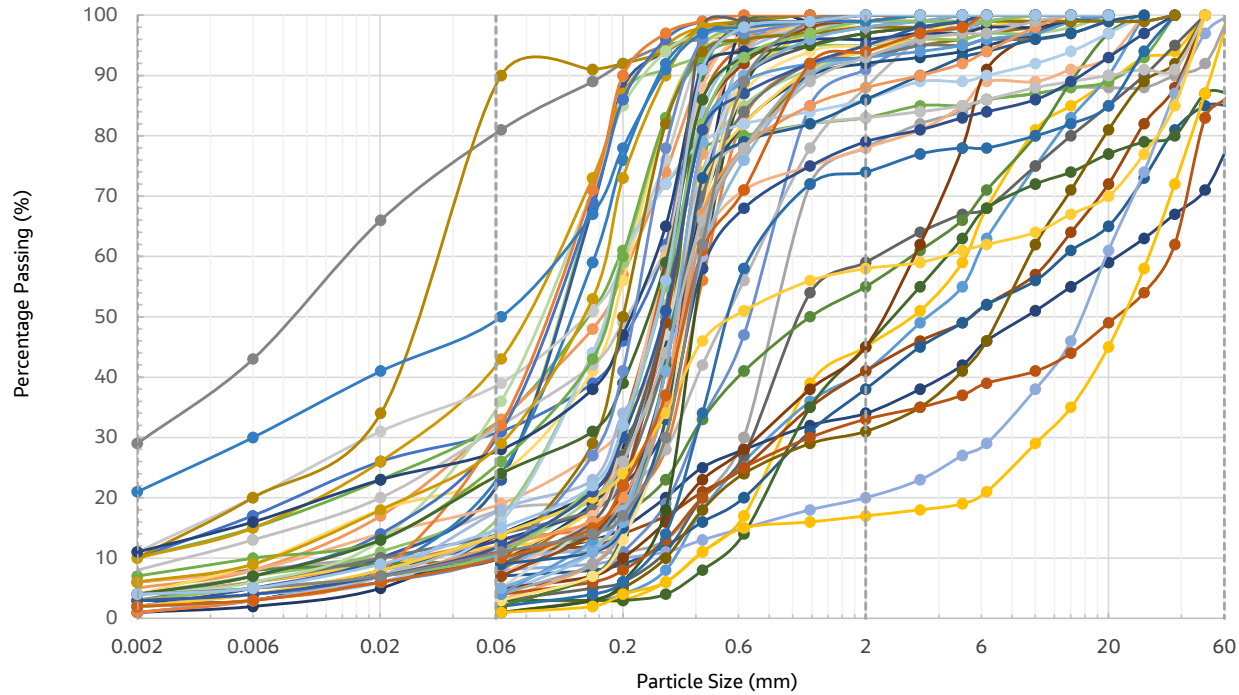


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciofluvial Deposits		Figure No.:	11



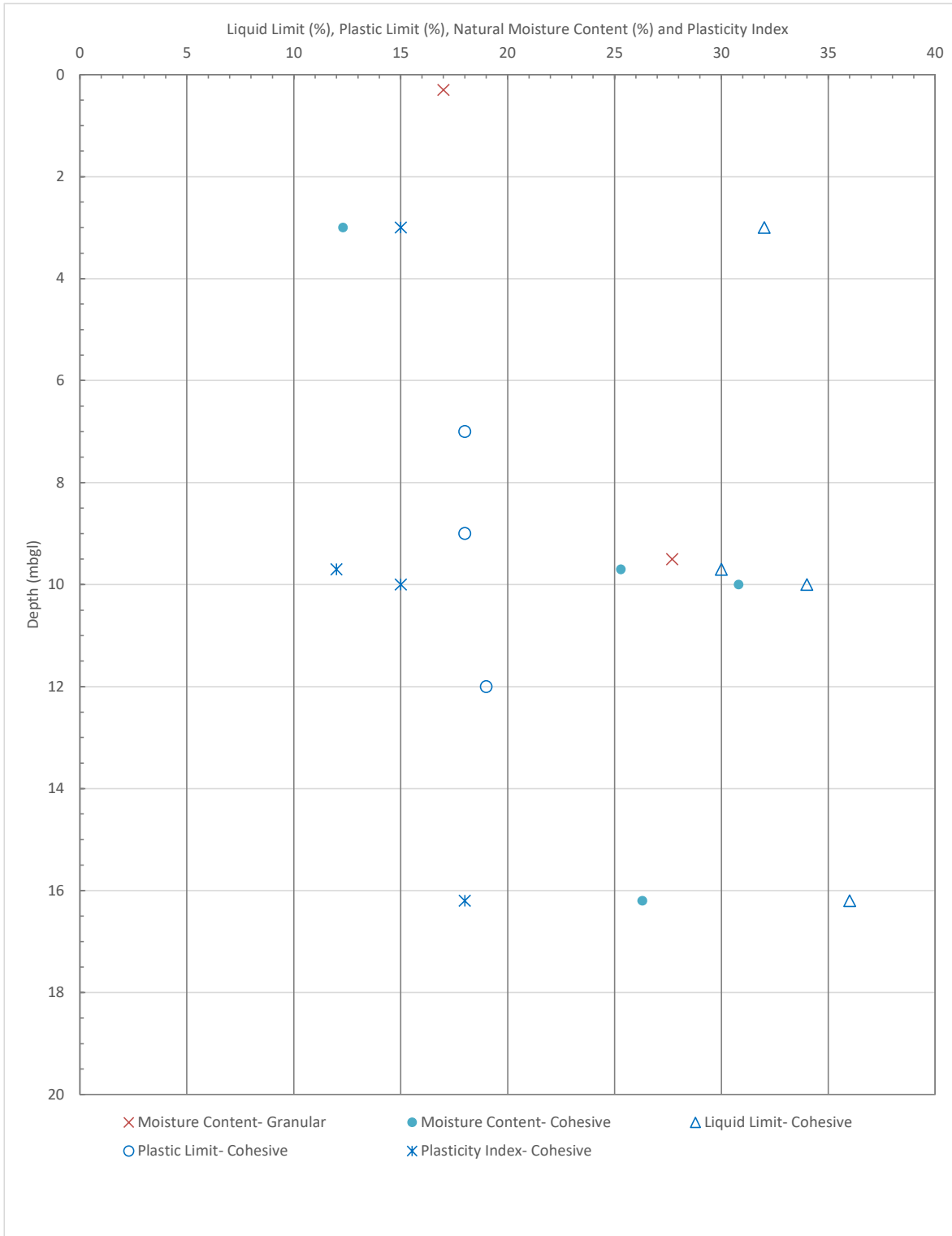
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT N ₆₀ vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciofluvial Deposits		Figure No.:	12

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

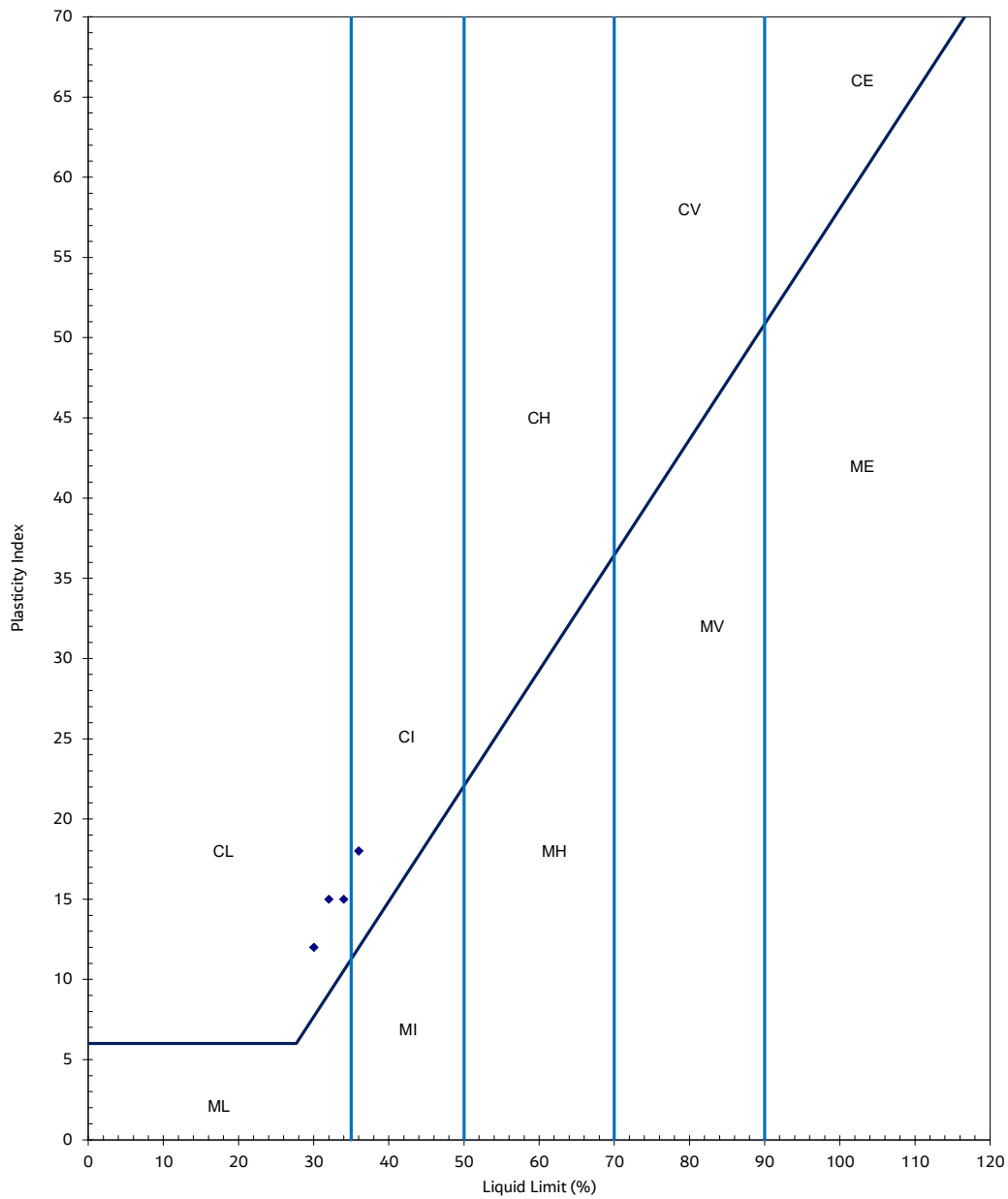


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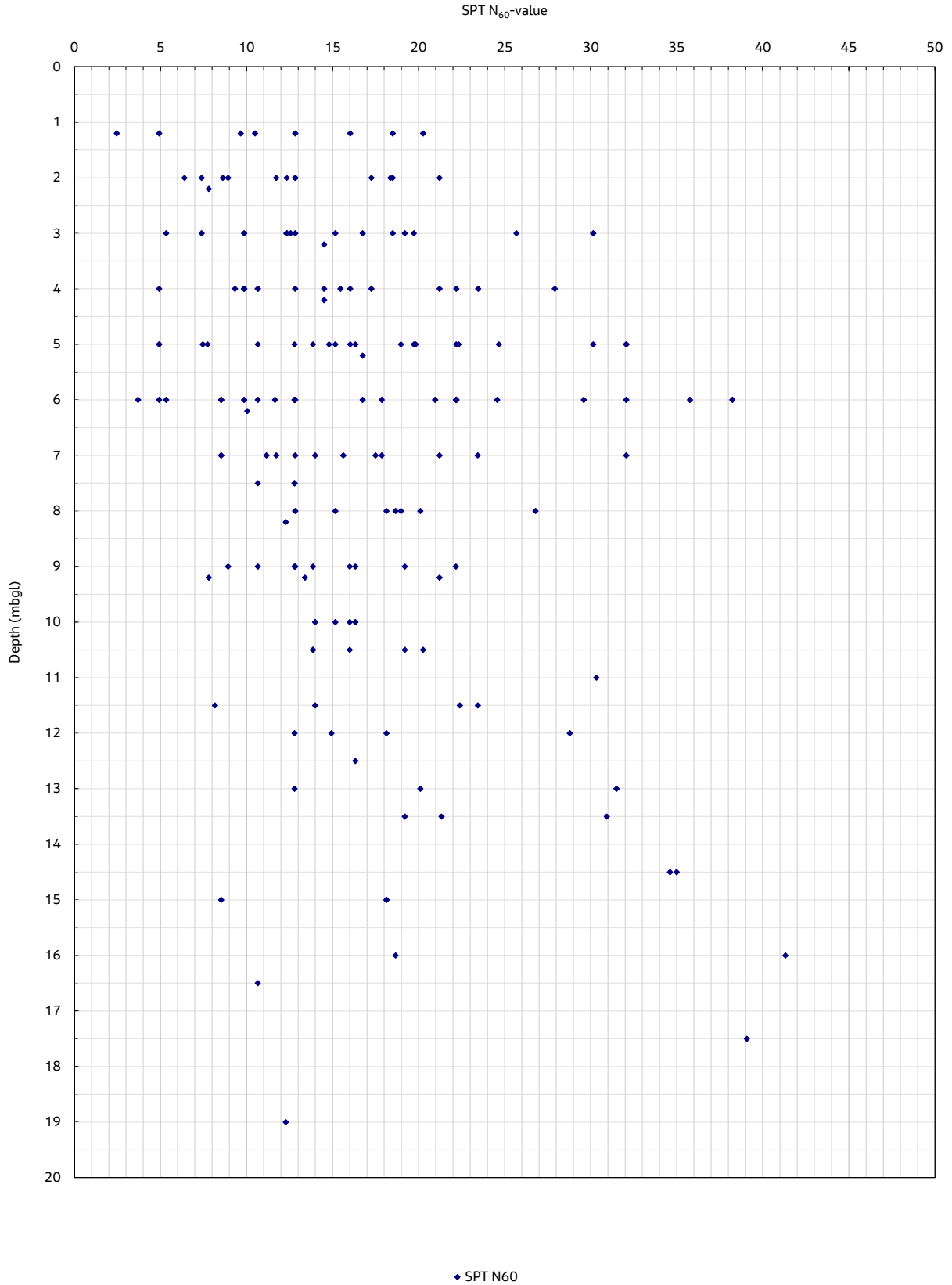
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciofluvial Ice Contact Deposits		Figure No.:	J1



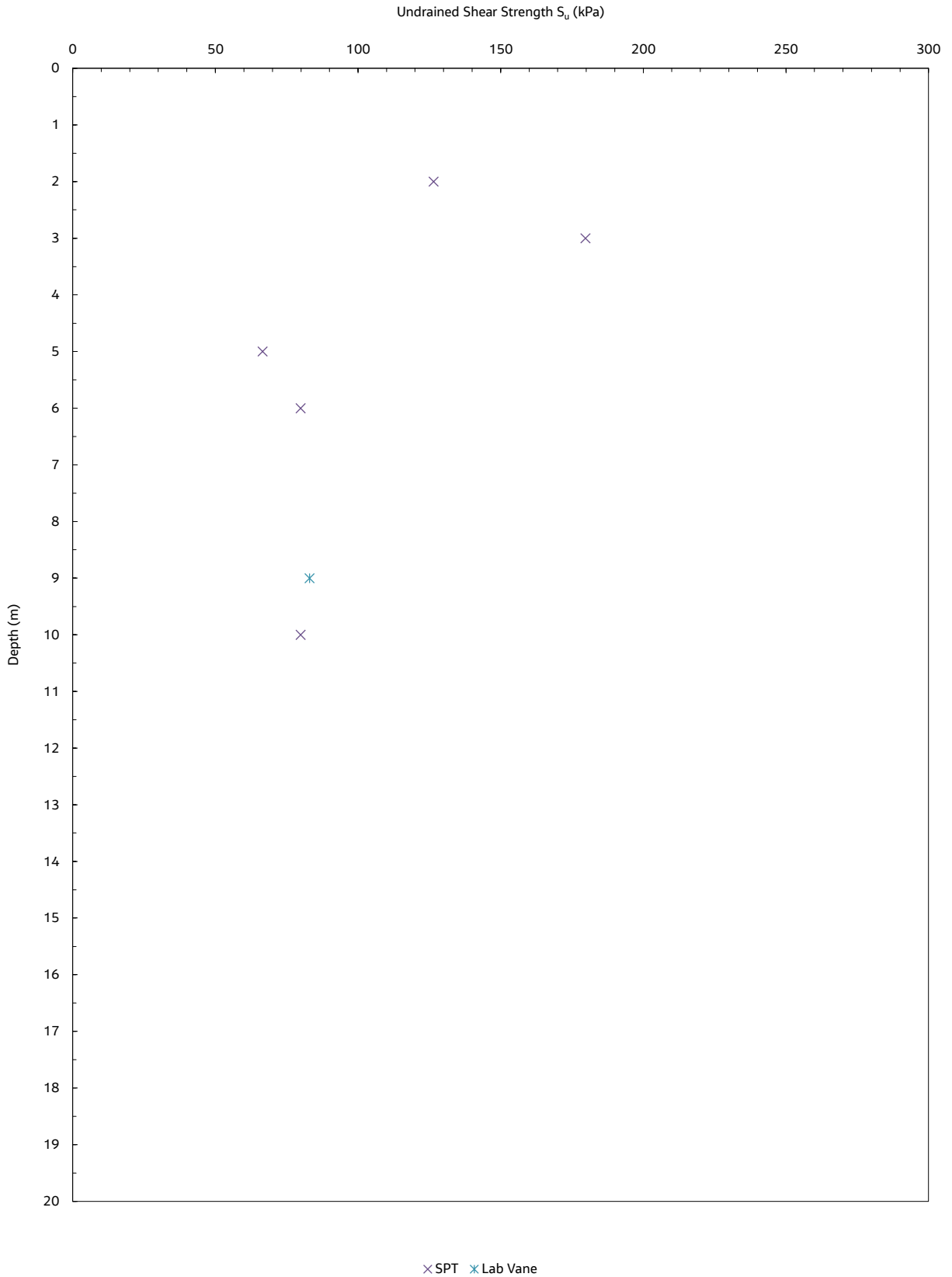
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciofluvial Ice Contact Deposits		Figure No.:	J2



National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Plasticity Chart		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciofluvial Ice Contact Deposits		Figure No.:	J3

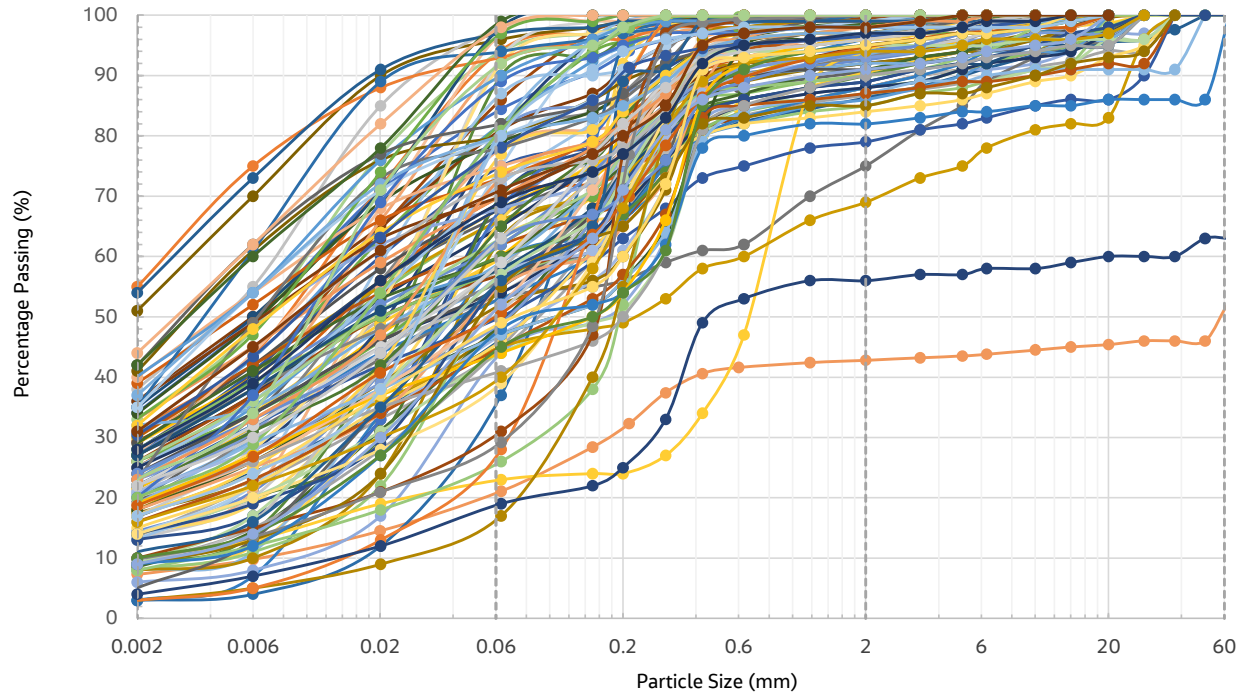


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT N ₆₀ vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciofluvial Ice Contact Deposits		Figure No.:	J4



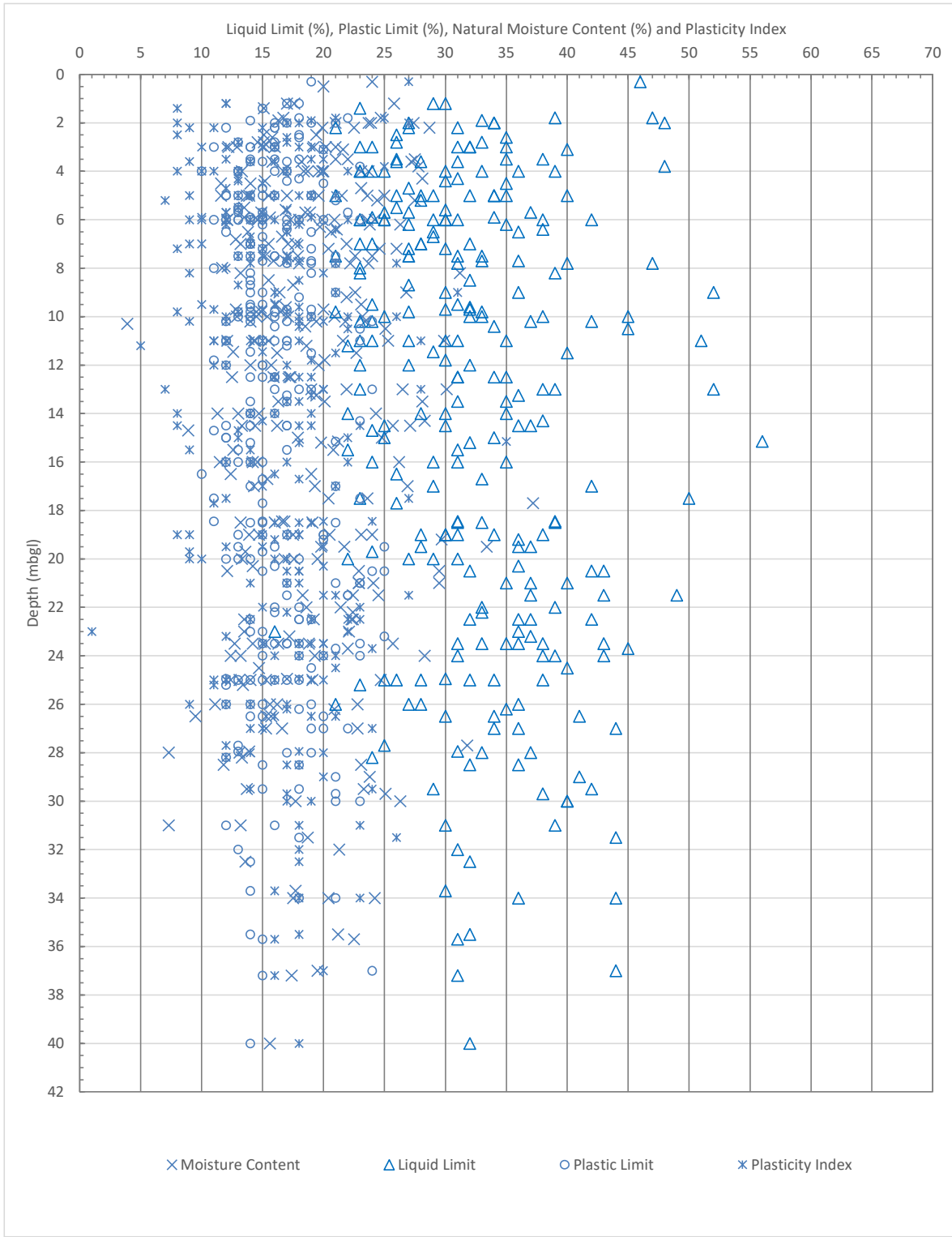
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Undrained Shear Strength vs. Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glaciofluvial Ice Contact Deposits- Cohesive		Figure No.:	J5

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

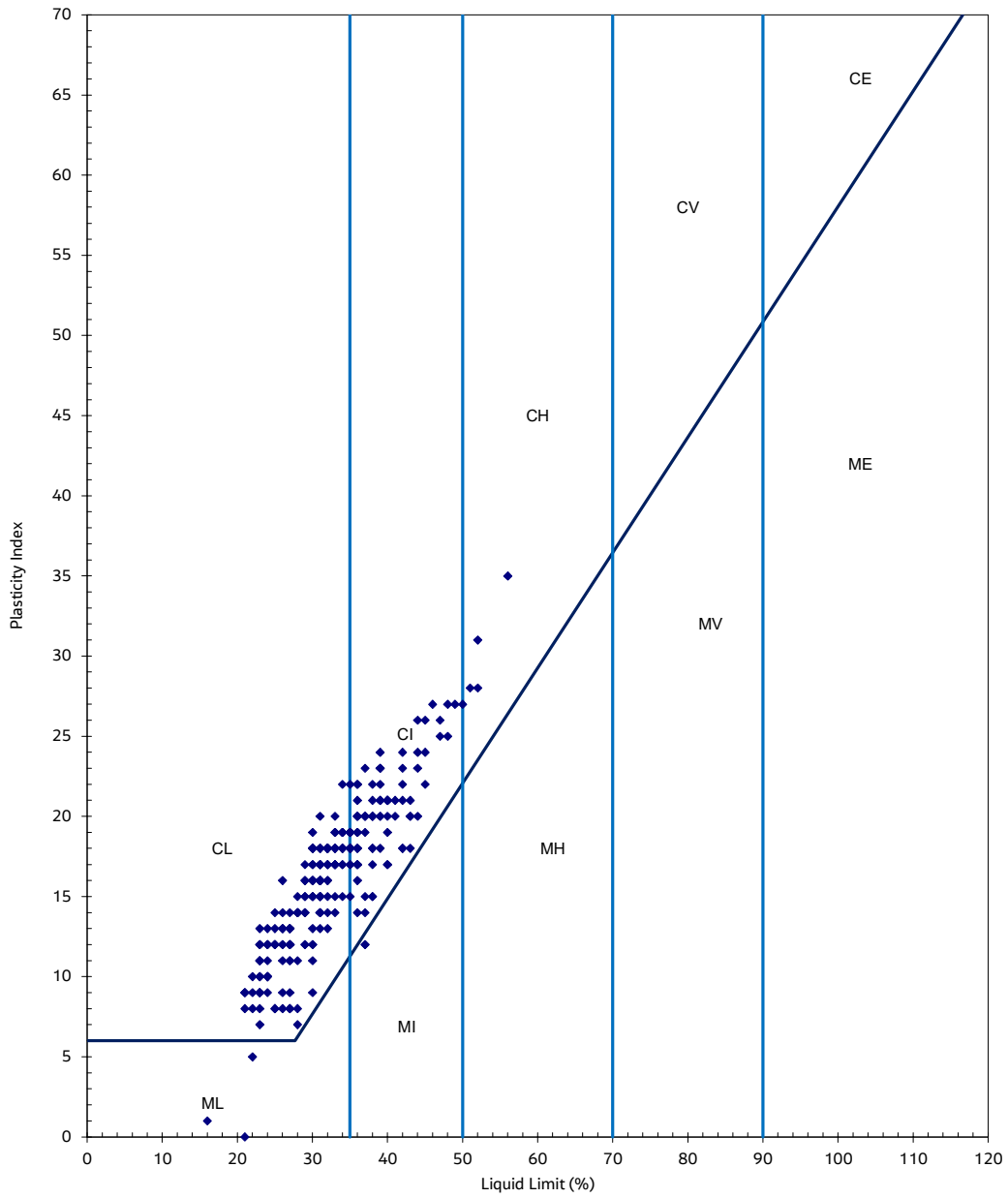


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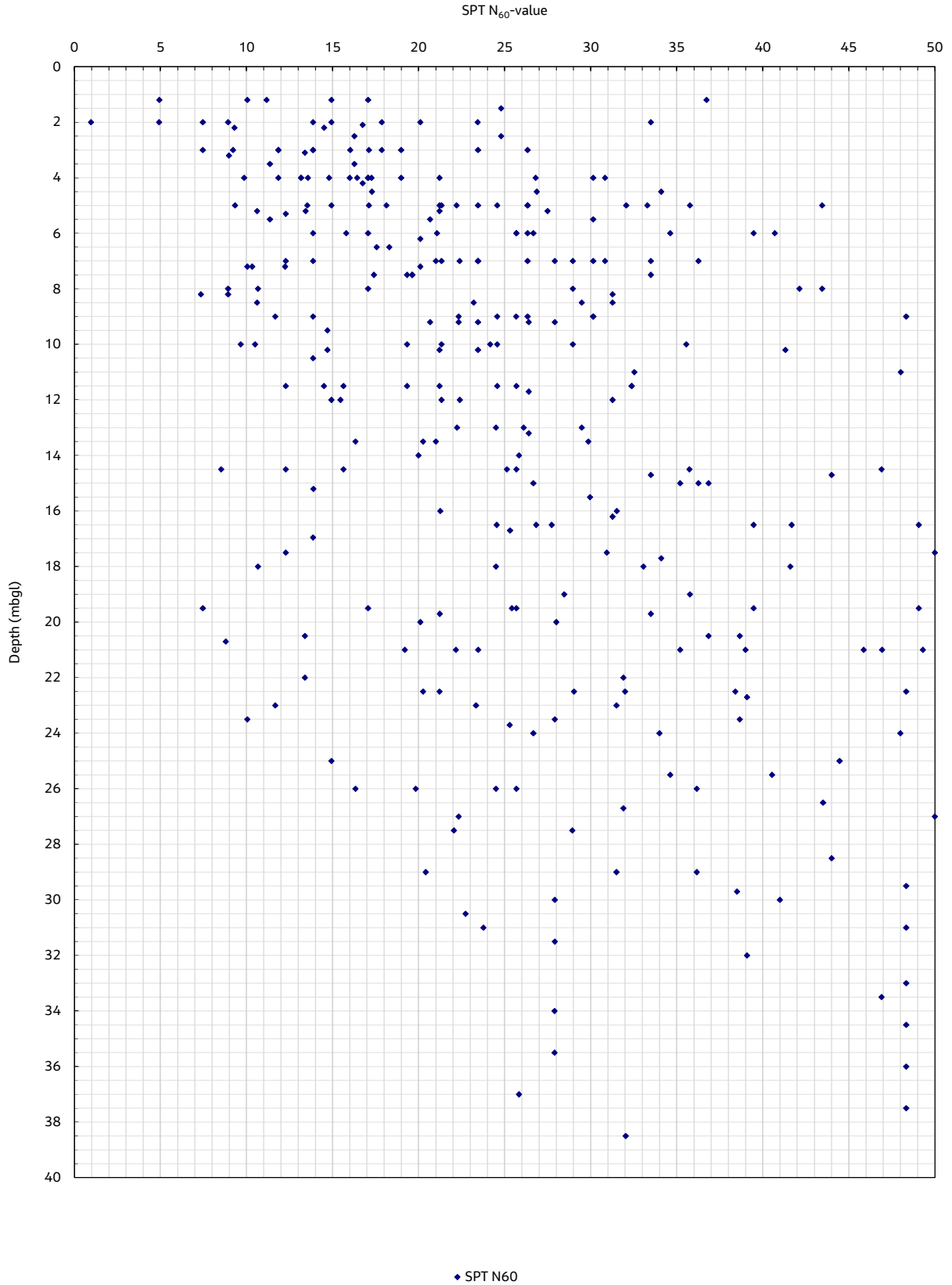
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till- Cohesive		Figure No.:	K1



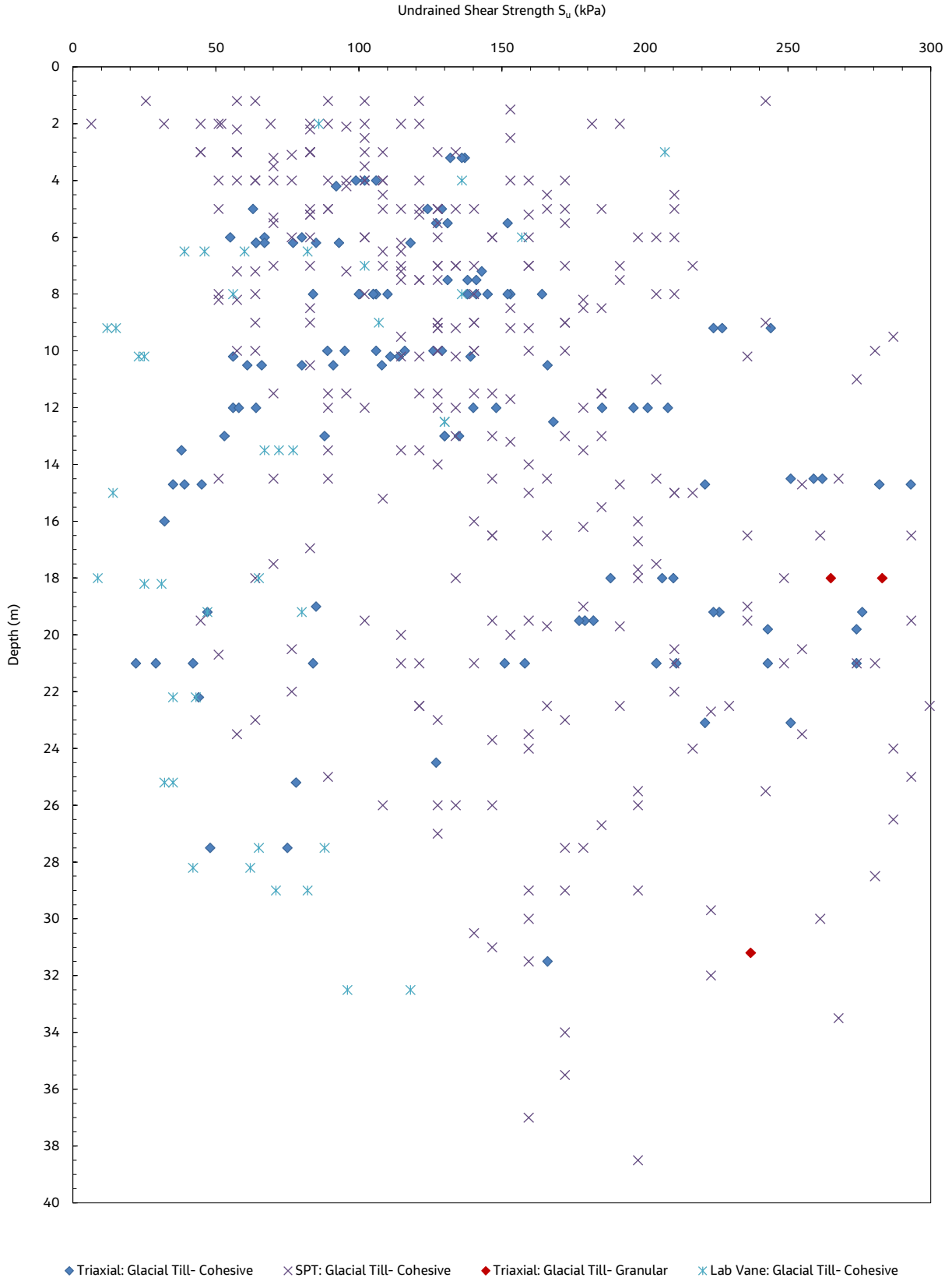
National Highways	M60/M62/M66 Simister Island Interchange	<h1 style="margin: 0;">Jacobs</h1>	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till- Cohesive		Figure No.:	K2



National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Plasticity Chart		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till- Cohesive		Figure No.:	K3

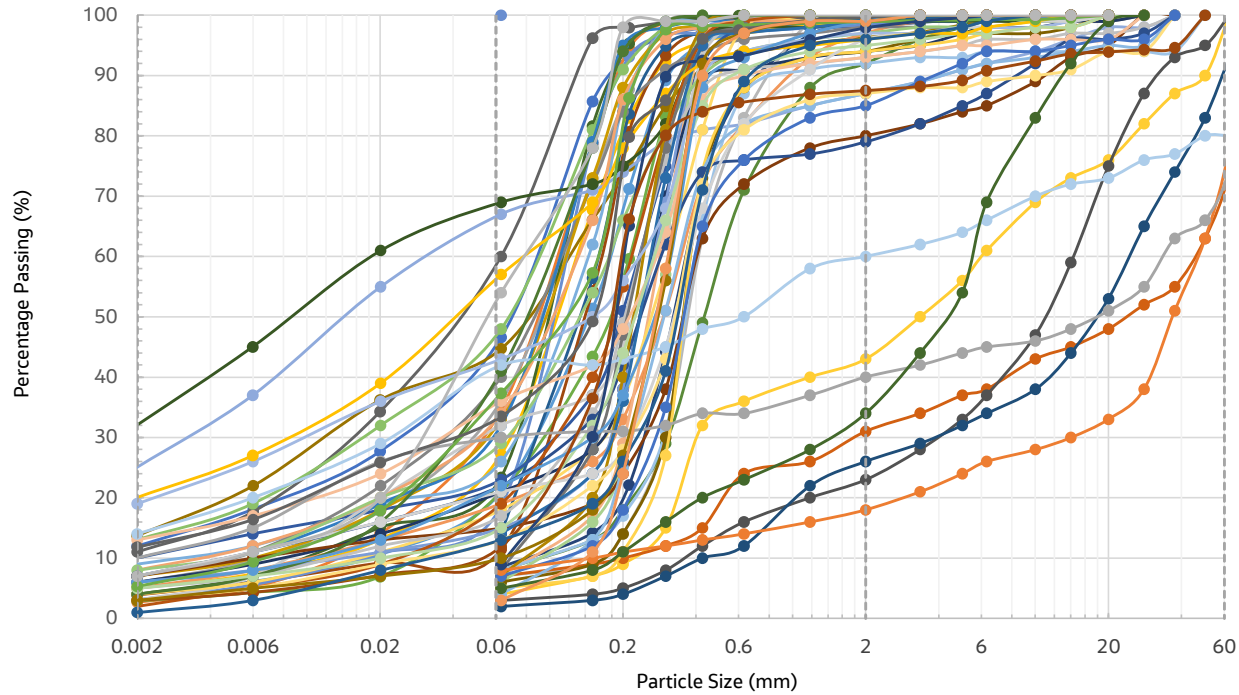


National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
SPT N ₆₀ vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till- Cohesive		Figure No.:	K4



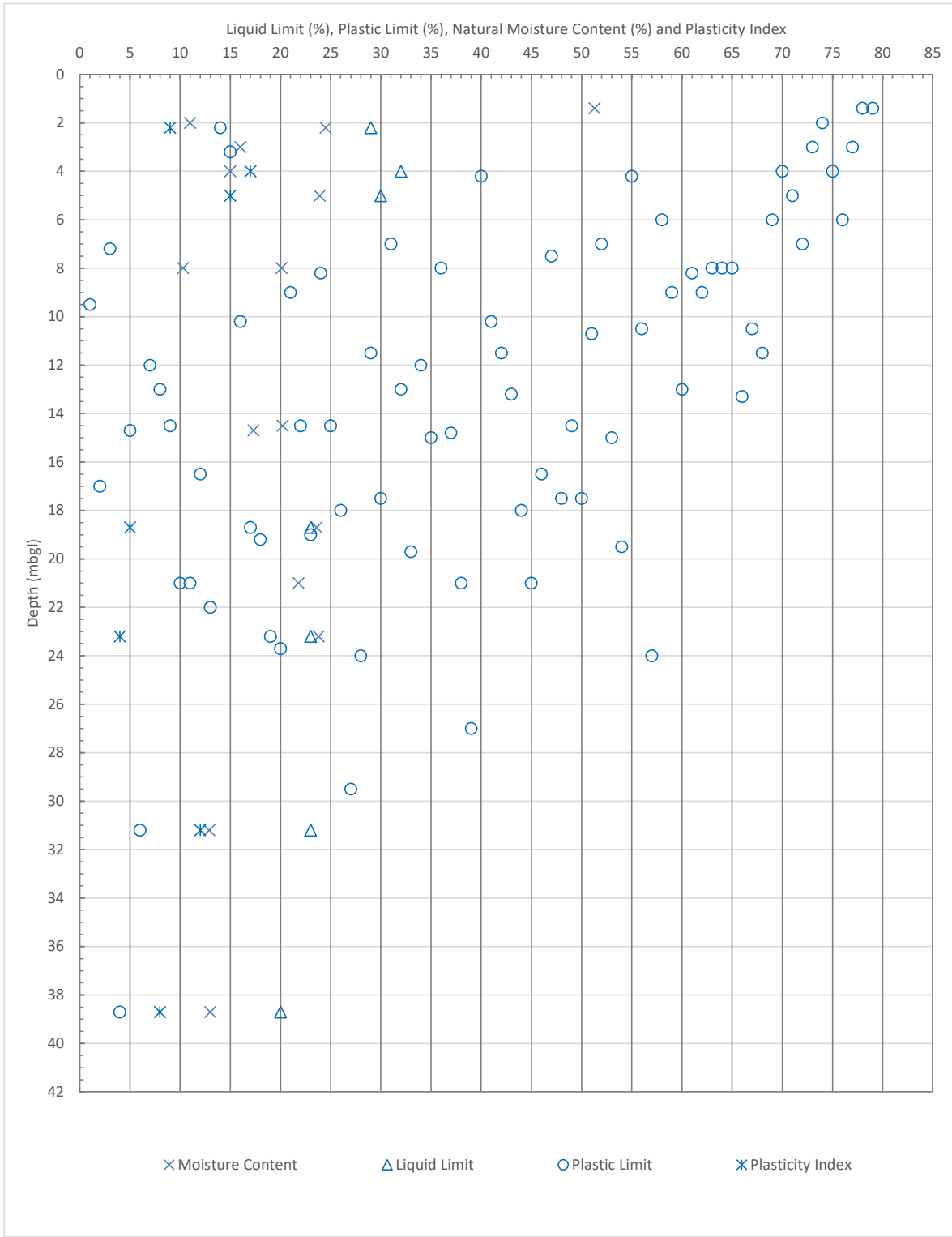
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Undrained Shear Strength vs. Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till		Figure No.:	K5

Clay	Silt			Sand			Gravel			Cobbles
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	

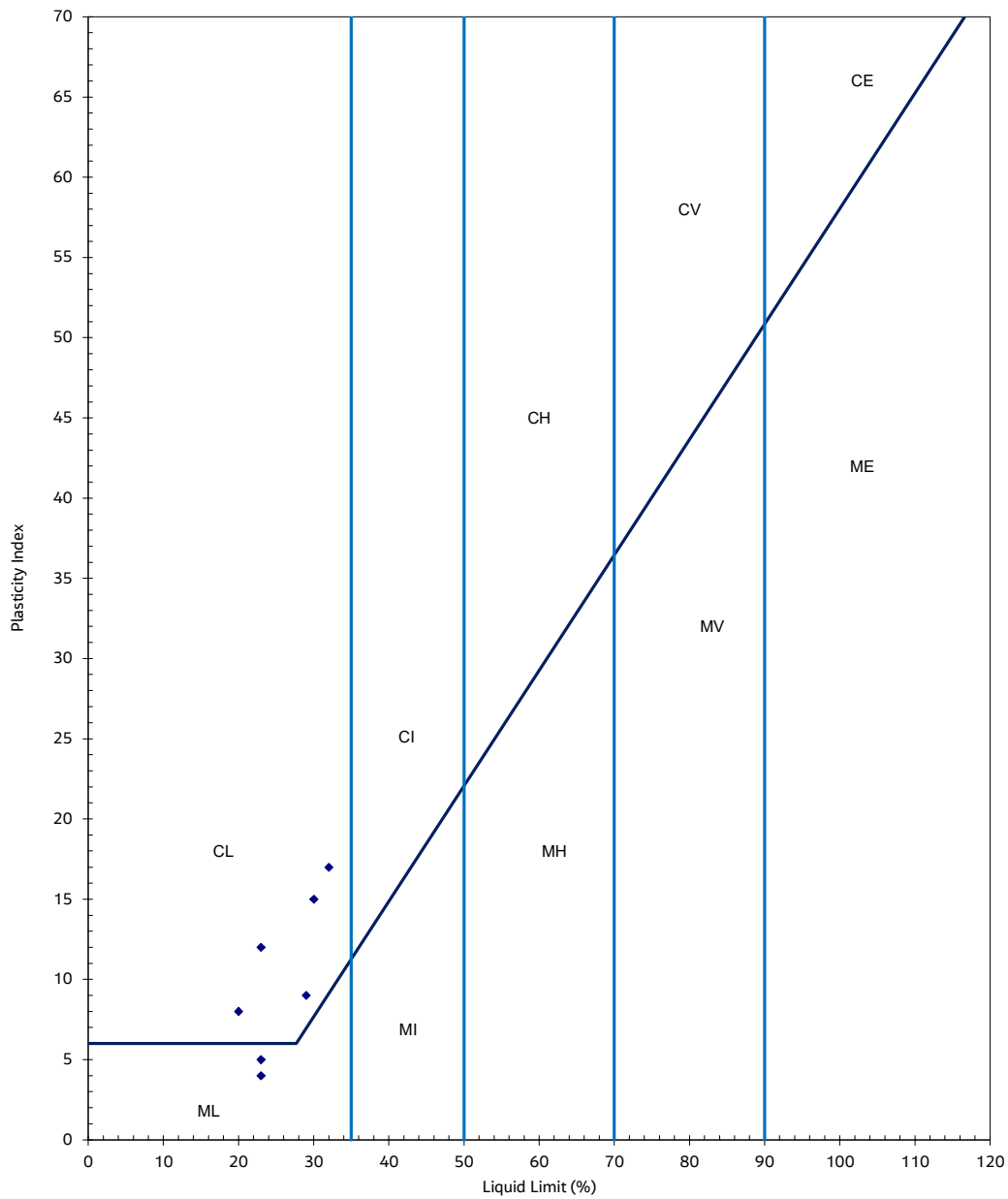


Due to the volume of data, the key is not shown. Data on this plot has been taken from 68No. tests.

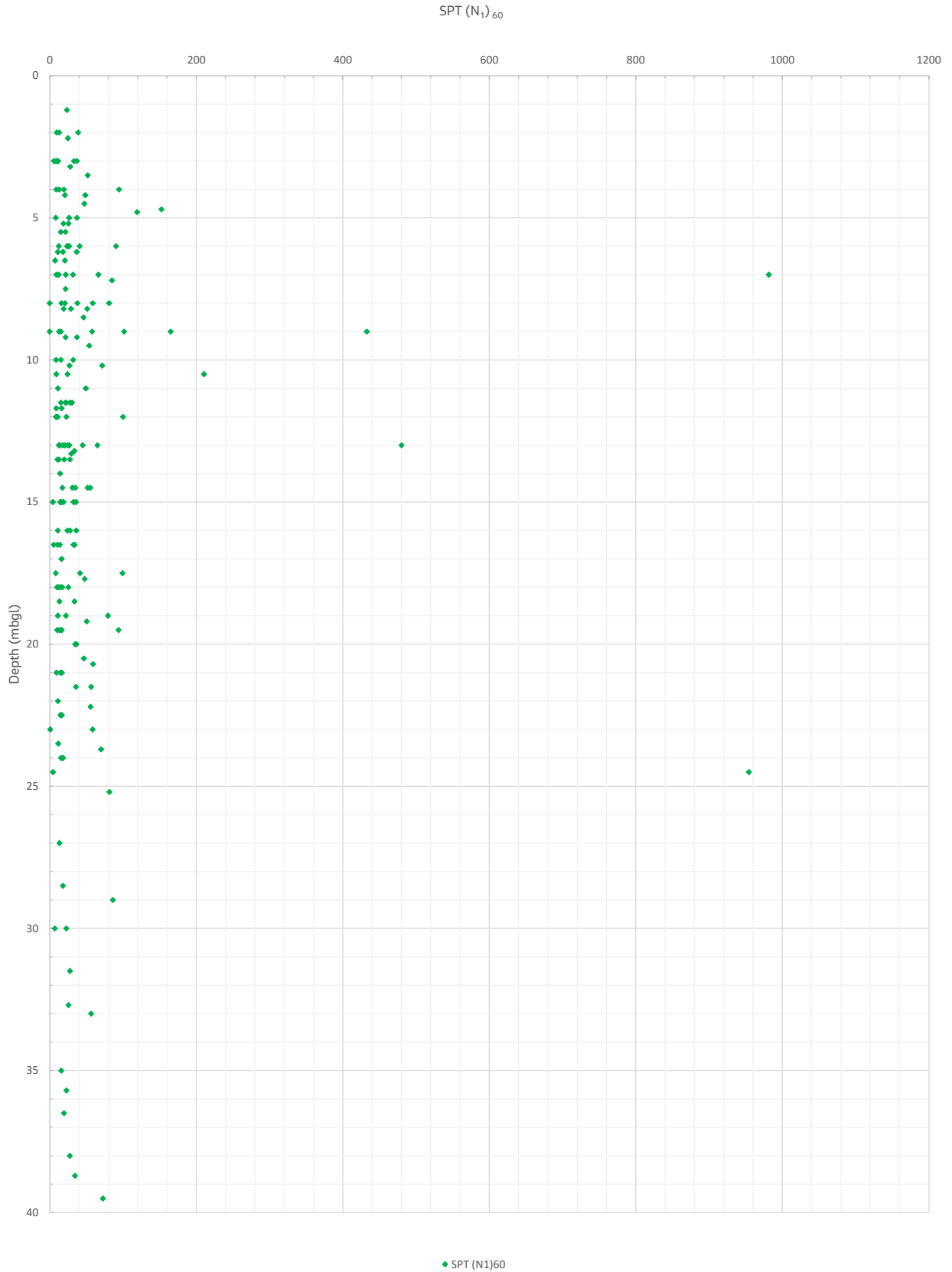
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Particle Size Distribution Curves		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till- Granular		Figure No.:	L1



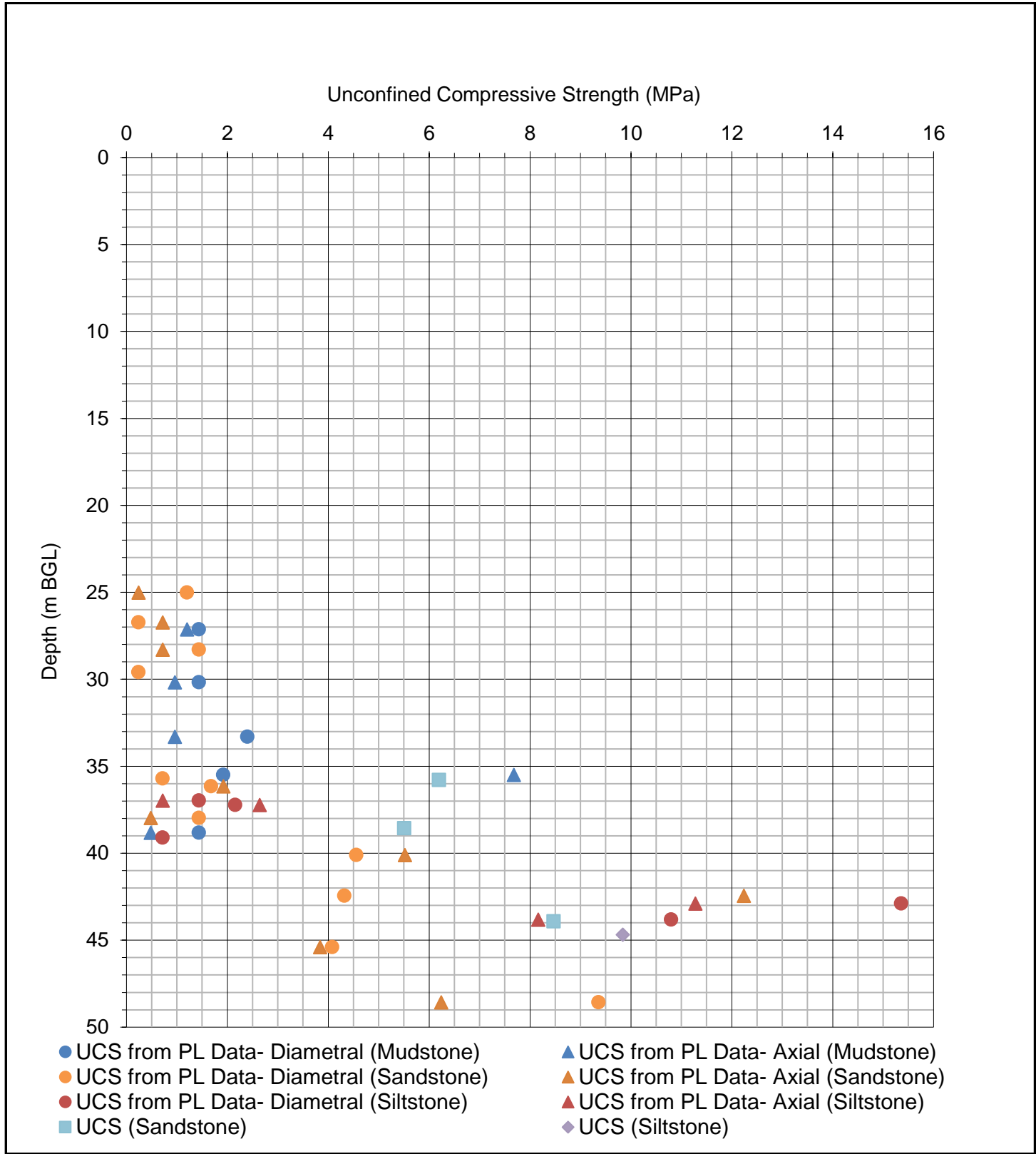
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Atterberg Limits and Moisture Content vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till- Granular		Figure No.:	L2



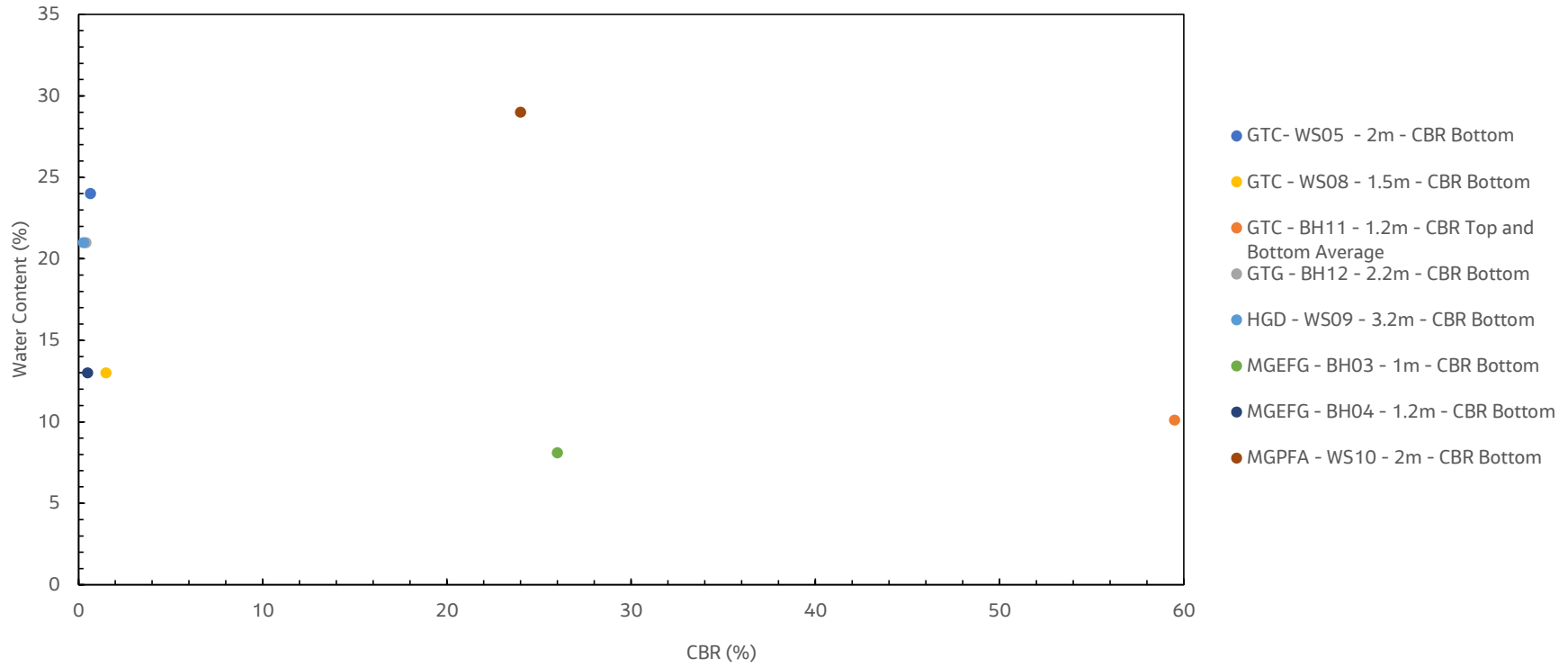
National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
Plasticity Chart		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till- Granular		Figure No.:	L3



National Highways	M60/M62/M66 Simister Island Interchange	<h1>Jacobs</h1>	
SPT (N ₁) ₆₀ vs. Depth		Report No:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Glacial Till- Granular		Figure No.:	L4



National Highways	M60/M62/M66 Simister Island Interchange	<h1 style="margin: 0;">Jacobs</h1>	
UCS vs Depth		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Pennine Coal Measures		Figure No.:	M1



National Highways	M60/M62/M66 Simister Island Interchange	Jacobs	
CBR vs Water Content		Report No.:	HE548642-JAC-HGT-SII_MLT-RP-GI-0002
Assorted Material		Figure No.:	N1

Annex G. Human health GQRA Screening Tables

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 03/03/2023

Table with columns for Analyte Group, Analyte, Unit, Commercial/Industrial 1% SOM Threshold, Sample Location (Top Depth/Base Depth), and 26 monitoring points (BH11 to BH-N04A). Rows include Asbestos, Inorganics, Metals, TPH Aliphatic, TPH Aromatic, PAH, VOC, and Phenols.

Comments
GAC - Generic Assessment Criteria
(blank) - no assessment criteria available
None - No unit
% - Percentage
pH Units - pH Units
mg/kg - milligrams per kilogram
NAD - No asbestos detected

CA5L - Category 4 Screening Levels, DEFRA SP1010, Development of Category 4 Screening Levels for Assessment of Land Affectors
SAUL - Suitable for Use Levels, The LQM/CRH SAULs for Human Health Risk Assessment
EIC - The Soil Generic Assessment Criteria for Human Health Risk Assessment, CL:AIRE in association with AGS and EIC

Key
XXX Exceedance of Commercial/Industrial 1% soil organic matter GAC

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 03/03/2023

Table with columns for Analyte Group, Analyte, Unit, Commercial/Industrial 1% SOM Threshold, Threshold Source, and 27 sampling locations (BH-N18 to BHWS02). Rows include Asbestos, Inorganics, Metals, TPH, PAH, VOC, and Phenols.

Comments
GAC - Generic Assessment Criteria
(blank) - no assessment criteria available
None - No unit
% - Percentage
pH Units - pH Units
mg/kg - milligrams per kilogram
NAD - No asbestos detected

CASL - Category 4 Screening Levels, DEFRA SP1010, Development of Category 4 Screening Levels for Assessment of Land Affectors
SAUL - Suitable for Use Levels, The LQM/CRH SAULs for Human Health Risk Assessment
EIC - The Soil Generic Assessment Criteria for Human Health Risk Assessment, CLARE in association with AGS and EIC

Key
XXX Exceedance of Commercial/Industrial 1% soil organic matter GAC

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 03/03/2023

Table with columns for Analyte Group, Analyte, Unit, Commercial/Industrial 1% SOM Threshold, Sample Location (Top Depth, Base Depth), and 28 sampling points (HDP12 to WS10, WS-G08A, WS-N01, WS-N02A). Rows include Asbestos, Inorganics, Metals, TPH, PAH, VOC, and Phenols.

Comments
GAC - Generic Assessment Criteria
(blank) - no assessment criteria available
None - No unit
% - Percentage
pH Units - pH Units
mg/kg - milligrams per kilogram
NAD - No asbestos detected

CASL - Category 4 Screening Levels, DEFRA SP1010, Development of Category 4 Screening Levels for Assessment of Land Affectors
SAUL - Suitable for Use Levels, The LQM/CRH SAULs for Human Health Risk Assessment
EIC - The Soil Generic Assessment Criteria for Human Health Risk Assessment, CLARE in association with AGS and EIC

Key
XXX Exceedance of Commercial/Industrial 1% soil organic matter GAC

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 03/03/2023

Table with columns: Analyte Group, Analyte, Unit, Commercial/Industrial 1% SOM Threshold, Sample Location (Sampled Date, Top Depth, Base Depth), and 28 individual sampling locations (WS-N02B to WS-N14). Rows include various analytes like Asbestos, Inorganics, Metals, TPH, PAH, VOC, and Phenols.

Comments
GAC - Generic Assessment Criteria
(blank) - no assessment criteria available
None - No unit
% - Percentage
pH Units - pH Units
mg/kg - milligrams per kilogram
NAD - No asbestos detected

CA5L - Category 4 Screening Levels, DEFRA SP1010, Development of Category 4 Screening Levels for Assessment of Land Affects
SAUL - Suitable for Use Levels, The LQM/CRH SAULs for Human Health Risk Assessment
EIC - The Soil Generic Assessment Criteria for Human Health Risk Assessment, CLARIE in association with AGS and EIC

Key
XXX Exceedance of Commercial/Industrial 1% soil organic matter GAC

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 03/03/2023

Table with columns for Analyte Group, Analyte, Unit, Commercial/Industrial 1% SOM Threshold, Sample Location (Top Depth, Base Depth), and 26 sampling points (WS-N15 to WS-S06). Rows include Asbestos, Inorganics, Metals, TPH, PAH, VOC, and Phenols.

Comments
GAC - Generic Assessment Criteria
(blank) - no assessment criteria available
None - No unit
% - Percentage
pH Units - pH Units
mg/kg - milligrams per kilogram
NAD - No asbestos detected

CASL - Category 4 Screening Levels, DEFRA SP1010, Development of Category 4 Screening Levels for Assessment of Land Affects
SAUL - Suitable for Use Levels, The LQM/CRH SAULs for Human Health Risk Assessment
EIC - The Soil Generic Assessment Criteria for Human Health Risk Assessment, CLARE in association with AGS and EIC

Key
XXX Exceedance of Commercial/Industrial 1% soil organic matter GAC

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 03/03/2023

Analyte Unit			Arsenic mg/kg	Cadmium mg/kg	Cyanide Free mg/kg	Benzene mg/kg	Phenol mg/kg
SoBRA AGAC Oral (Child)			80	140	24	47	2,000
SoBRA AGAC Inhalation (Child)			7,000,000	1,800,000	380	190	>sat
SoBRA AGAC Dermal (Child)						>sat	
SoBRA AGAC Oral (Adult)			7,000	12,000	2,100	4,100	>sat
SoBRA AGAC Inhalation (Adult)			14,000,000	3,500,000	1,400	370	>sat
SoBRA AGAC Dermal (Adult)						>sat	
Location ID	Sample Depth (m)	Sample Date					
BH02	1	10/02/2023	3.3	< 0.2	< 1	< 0.005	
BH02	2.2	14/02/2023	3.4	< 0.2	< 1	< 0.005	
BH02	4	14/02/2023	5.1	0.5	< 1	< 0.005	
BH04	1	15/02/2023	4.4	0.3	< 1	< 0.005	
BH04	3	17/02/2023	1.7	< 0.2	< 1	< 0.005	
BH04	5	17/02/2023	3.8	< 0.2	< 1	< 0.005	
BH05	1	15/02/2022	2.5	0.6	< 1	< 0.005	
BH05	3	16/02/2023	56	< 0.2	< 1	< 0.005	
BH05	7	17/02/2023	4.5	< 0.2	< 1	< 0.005	
BH06	1	16/02/2023	2	0.6	< 1	< 0.005	
BH06	2	20/02/2023	100	< 0.2	< 1	< 0.005	
BH06	8.2	21/02/2023	21	< 0.2	< 1	< 0.005	
BH06	10.2	21/02/2023	4.6	< 0.2	< 1	< 0.005	
BH07	1	24/02/2023	2.7	0.5	< 1	< 0.005	
BH07	2	27/02/2023	16	< 0.2	< 1	< 0.005	
BH07	8	02/03/2023	98	< 0.2	< 1	< 0.005	
BH07	11	03/03/2023	2.6	< 0.2	< 1	< 0.005	
BH08	1	20/02/2023	2.4	< 0.2	< 1	< 0.005	
BH08	2.1	01/03/2023	2.9	< 0.2	< 1	< 0.005	
BH08	3.2	02/03/2023	4.4	< 0.2	< 1	< 0.005	
BH10	1	23/01/2023	3.9	0.3	< 1	< 0.005	
BH10A	0.9	26/01/2023	3.8	0.3	< 1	< 0.005	
BH10A	2	08/02/2023	6.7	< 0.2	< 1	< 0.005	
BH11	0.9	16/01/2023	4.3	0.3	< 1	< 0.005	
BH11	2	19/01/2023	5.1	< 0.2	< 1	< 0.005	

Project Name: M60/M62/M66 Simister Island

Sample Date: 28/06/2021 - 03/03/2023

Analyte Unit			Arsenic mg/kg	Cadmium mg/kg	Cyanide Free mg/kg	Benzene mg/kg	Phenol mg/kg
SoBRA AGAC Oral (Child)			80	140	24	47	2,000
SoBRA AGAC Inhalation (Child)			7,000,000	1,800,000	380	190	>sat
SoBRA AGAC Dermal (Child)						>sat	
SoBRA AGAC Oral (Adult)			7,000	12,000	2,100	4,100	>sat
SoBRA AGAC Inhalation (Adult)			14,000,000	3,500,000	1,400	370	>sat
SoBRA AGAC Dermal (Adult)						>sat	
Location ID	Sample Depth (m)	Sample Date					
BH12	2	16/01/2023	3.8	0.2	< 1	< 0.005	
BH13	0.5	10/01/2023	< 1	0.3	< 1	< 0.005	
BH13	1.75	12/01/2023	17	< 0.2	< 1	< 0.005	
BH-G01	0.95	20/07/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-G01A	0.5	20/07/2021	2	< 0.5	< 1	< 0.01	< 0.2
BH-G02	0.35	12/07/2021	2	0.5	< 1	< 0.01	< 0.2
BH-G03A	1	12/07/2021	2	0.5	< 1	< 0.01	< 0.2
BH-G04	0.5	15/07/2021	5	< 0.5	< 1	< 0.01	< 0.2
BH-G04	1.8	15/07/2021	4	0.6	< 1	< 0.01	< 0.2
BH-G06	0.5	03/11/2021	2	< 0.5	< 1	< 0.01	< 0.2
BH-G07A	1	28/09/2021	1	0.7	< 1	< 0.01	< 0.2
BH-G09	0.39	06/08/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-G10	0.5	11/08/2021	51	0.9	< 1	< 0.01	< 0.2
BH-G11	0.4	06/08/2021	2	< 0.5	< 1	< 0.01	< 0.2
BH-N01	0.5	16/08/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-N02	0.5	12/08/2021	< 1	0.7	< 1	< 0.01	< 0.2
BH-N02	1.9	13/08/2021	< 1	0.7	< 1	< 0.01	< 0.2
BH-N03	1	11/10/2021	2	0.7	< 1	< 0.01	< 0.2
BH-N04	0.2	21/10/2021	4	0.7	< 1	< 0.01	< 0.2
BH-N04A	0.25	11/10/2021	2	< 0.5	< 1	< 0.01	< 0.2
BH-N05	1	20/09/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-N05	1.5	20/09/2021	2	1.6	< 1	< 0.01	< 0.2
BH-N06	0.5	09/08/2021	< 1	0.7	< 1	< 0.01	< 0.2
BH-N06A	1	27/07/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-N06B	0.5	04/08/2021	2	0.8	< 1	< 0.01	< 0.2

Project Name: M60/M62/M66 Simister Island

Sample Date: 28/06/2021 - 03/03/2023

Analyte Unit			Arsenic mg/kg	Cadmium mg/kg	Cyanide Free mg/kg	Benzene mg/kg	Phenol mg/kg
SoBRA AGAC Oral (Child)			80	140	24	47	2,000
SoBRA AGAC Inhalation (Child)			7,000,000	1,800,000	380	190	>sat
SoBRA AGAC Dermal (Child)						>sat	
SoBRA AGAC Oral (Adult)			7,000	12,000	2,100	4,100	>sat
SoBRA AGAC Inhalation (Adult)			14,000,000	3,500,000	1,400	370	>sat
SoBRA AGAC Dermal (Adult)						>sat	
Location ID	Sample Depth (m)	Sample Date					
BH-N06C	0.2	25/08/2021	14	0.7	< 1	< 0.01	< 0.2
BH-N07	0.1	03/08/2021	7	< 0.5	< 1	< 0.01	< 0.2
BH-N07	1	03/08/2021	5	< 0.5	< 1	< 0.01	< 0.2
BH-N08	0.2	30/06/2021	11	0.7	< 1	< 0.01	< 0.2
BH-N08A	2	06/08/2021	< 1	0.5	< 1	< 0.01	< 0.2
BH-N09	0.5	28/06/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-N10	0.5	06/10/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-N10	1	06/10/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-N11	0.25	06/09/2021	20	1.7	< 1	< 0.01	< 0.2
BH-N12A	1	16/08/2021	< 1	0.6	< 1	< 0.01	< 0.2
BH-N13	0.5	20/07/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-N14	0.5	07/07/2021	2	0.6	< 1	< 0.01	< 0.2
BH-N14	1	07/07/2021	6	0.8	< 1	< 0.01	< 0.2
BH-N15	0.5	24/11/2021	4	0.5	< 1	< 0.01	< 0.2
BH-N16	0.25	04/10/2021	21	2.4	< 1	< 0.01	< 0.2
BH-N17	0.2	01/07/2021	4	0.6	< 1	< 0.01	< 0.2
BH-N17	4	01/07/2021	5	0.6	< 1	< 0.01	< 0.2
BH-N17OB	0.2	16/09/2021	6	0.5	< 1	< 0.01	< 0.2
BH-N18	0.25	31/08/2021	1	0.6	< 1	< 0.01	< 0.2
BH-N18	1	31/08/2021	6	7.6	< 1	< 0.01	< 0.2
BH-N18OB	0.2	16/09/2021	2	0.6	< 1	< 0.01	< 0.2
BH-N19	0.25	22/09/2021	5	0.7	< 1	< 0.01	< 0.2
BH-N20	0.25	16/09/2021	29	2	< 1	< 0.01	< 0.2
BH-N20	0.5	16/09/2021	13	1.2	< 1	< 0.01	< 0.2
BH-N21	0.25	10/09/2021	21	1.5	< 1	< 0.01	< 0.2

Project Name: M60/M62/M66 Simister Island

Sample Date: 28/06/2021 - 03/03/2023

Analyte Unit			Arsenic mg/kg	Cadmium mg/kg	Cyanide Free mg/kg	Benzene mg/kg	Phenol mg/kg
SoBRA AGAC Oral (Child)			80	140	24	47	2,000
SoBRA AGAC Inhalation (Child)			7,000,000	1,800,000	380	190	>sat
SoBRA AGAC Dermal (Child)						>sat	
SoBRA AGAC Oral (Adult)			7,000	12,000	2,100	4,100	>sat
SoBRA AGAC Inhalation (Adult)			14,000,000	3,500,000	1,400	370	>sat
SoBRA AGAC Dermal (Adult)						>sat	
Location ID	Sample Depth (m)	Sample Date					
BHNO03A	0.25	31/01/2023	5.3	0.3	< 1	< 0.005	
BHNO03A	1	31/01/2023	7.2	< 0.2	< 1	< 0.005	
BH-P02	0.2	02/12/2021	11	1.1	< 1	< 0.01	< 0.2
BH-P02	3	02/12/2021	3	0.6	< 1	< 0.01	< 0.2
BH-P03	0.2	01/12/2021	4	1	< 1	< 0.01	< 0.2
BH-P03	1	01/12/2021	3	0.8	< 1	< 0.01	< 0.2
BH-S01	1	18/08/2021	< 1	0.9	< 1	< 0.01	< 0.2
BH-S02	0.5	25/10/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
BH-S03	0.8	25/10/2021	1	0.7	< 1	< 0.01	< 0.2
BH-S04	0.5	18/08/2021	< 1	0.6	< 1	< 0.01	< 0.2
BH-S04	2	31/08/2021	2	0.6	< 1	< 0.01	< 0.2
BH-S05	0.25	02/09/2021	6	< 0.5	< 1	< 0.01	< 0.2
BH-S06	0.5	23/08/2021	1	0.8	< 1	< 0.01	< 0.2
BH-S07	0.25	12/08/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
WS01A	1	07/02/2023	5.6	0.2	< 1	< 0.005	
WS01A	2.1	07/02/2023	4.2	0.3	< 1	< 0.005	
WS02	2	06/02/2023	9.9	< 0.2	< 1	< 0.005	
WS02	3	06/02/2023	1.9	0.2	< 1	< 0.005	
WS02	4	07/02/2023	2.5	0.5	< 1	< 0.005	
WS03	1	10/02/2023	3.9	< 0.2	< 1	< 0.005	
WS03	2.2	06/02/2023	88	< 0.2	< 1	< 0.005	
WS04	5	06/02/2023	13	< 0.2	< 1	< 0.005	
WS04	7	07/02/2023	3.3	0.3	< 1	< 0.005	
WS08	2.1	08/02/2023	3.7	< 0.2	< 1	< 0.005	
WS08	6.1	09/02/2023	3.8	< 0.2	< 1	< 0.005	

Project Name: M60/M62/M66 Simister Island

Sample Date: 28/06/2021 - 03/03/2023

Analyte Unit			Arsenic mg/kg	Cadmium mg/kg	Cyanide Free mg/kg	Benzene mg/kg	Phenol mg/kg
SoBRA AGAC Oral (Child)			80	140	24	47	2,000
SoBRA AGAC Inhalation (Child)			7,000,000	1,800,000	380	190	>sat
SoBRA AGAC Dermal (Child)						>sat	
SoBRA AGAC Oral (Adult)			7,000	12,000	2,100	4,100	>sat
SoBRA AGAC Inhalation (Adult)			14,000,000	3,500,000	1,400	370	>sat
SoBRA AGAC Dermal (Adult)						>sat	
Location ID	Sample Depth (m)	Sample Date					
WS09	2	08/02/2023	89	< 0.2	< 1	< 0.005	
WS10	3.5	26/01/2023	85	< 0.2	< 1	< 0.005	
HDP01	0.25	31/01/2023	11	< 0.2	< 1	< 0.005	
HDP02	0.3	03/03/2023	7	0.3	< 1	< 0.005	
HDP03	0.25	01/02/2023	18	0.9	< 1	< 0.005	
HDP05	0.5	01/02/2023	5.7	< 0.2	< 1	< 0.005	
HDP06	0.25	01/02/2023	7	< 0.2	< 1	< 0.005	
HDP07	0.25	02/02/2023	14	< 0.2	< 1	< 0.005	
HDP07	1	02/02/2023	5.8	0.2	< 1	< 0.005	
HDP08	0.25	31/01/2023	10	0.4	< 1	< 0.005	
HDP08	1	31/01/2023	6.7	< 0.2	< 1	< 0.005	
HDP09	0.55	03/03/2023	11	< 0.2	< 1	< 0.005	
HDP09	1.35	03/02/2023	35	< 0.2	< 1	< 0.005	
HDP10	0.15	30/01/2023	7	0.3	< 1	< 0.005	
HDP10	0.5	30/01/2023	6.5	0.5	< 1	< 0.005	
HDP12	0.1	30/01/2023	7.9	< 0.2	< 1	< 0.005	
HDP12	0.5	30/01/2023	10	< 0.2	< 1	< 0.005	
TP-N01	0.2	10/08/2021	7	0.9	< 1	< 0.01	< 0.2
TP-N01	0.5	10/08/2021	2	0.7	< 1	< 0.01	< 0.2
TP-N02	0.5	01/09/2021	2	< 0.5	< 1	< 0.01	< 0.2
WS01	0.8	25/01/2023	5.1	0.2	< 1	< 0.005	
WS01	1.5	26/01/2023	3.8	0.2	< 1	< 0.005	
WS02	0.5	25/01/2023	2.5	0.4	< 1	< 0.005	
WS03	0.6	25/01/2023	1.5	0.3	< 1	< 0.005	
WS04	1	27/01/2023	1.6	0.4	< 1	< 0.005	

Project Name: M60/M62/M66 Simister Island

Sample Date: 28/06/2021 - 03/03/2023

Analyte Unit			Arsenic mg/kg	Cadmium mg/kg	Cyanide Free mg/kg	Benzene mg/kg	Phenol mg/kg
SoBRA AGAC Oral (Child)			80	140	24	47	2,000
SoBRA AGAC Inhalation (Child)			7,000,000	1,800,000	380	190	>sat
SoBRA AGAC Dermal (Child)						>sat	
SoBRA AGAC Oral (Adult)			7,000	12,000	2,100	4,100	>sat
SoBRA AGAC Inhalation (Adult)			14,000,000	3,500,000	1,400	370	>sat
SoBRA AGAC Dermal (Adult)						>sat	
Location ID	Sample Depth (m)	Sample Date					
WS04	2	07/02/2023	80	< 0.2	< 1	< 0.005	
WS05	0.5	23/01/2023	1.8	0.5	< 1	< 0.005	
WS05	2	25/01/2023	6	< 0.2	< 1	< 0.005	
WS06	0.7	20/01/2023	4.8	0.3	< 1	< 0.005	
WS06	2	23/01/2023	5.4	0.2	< 1	< 0.005	
WS07	0.7	13/01/2022	5.2	0.3	< 1	< 0.005	
WS07	1.9	17/01/2023	4.7	< 0.2	< 1	< 0.005	
WS08	0.3	18/01/2023	3.2	0.4	< 1	< 0.005	
WS08	0.8	18/01/2023	3.9	0.2	< 1	< 0.005	
WS09	0.8	19/01/2023	4.6	0.3	< 1	< 0.005	
WS10	1	19/01/2023	17	< 0.2	< 1	< 0.005	
WS10	1.5	19/01/2023	77	< 0.2	< 1	< 0.005	
WS-G08A	0.1	12/11/2021	2	< 0.5	< 1	< 0.01	< 0.2
WS-N01	1.5	25/08/2021	4	0.6	< 1	< 0.01	< 0.2
WS-N02A	1	06/08/2021	7	1.6	< 1	< 0.01	< 0.2
WS-N02B	0.5	19/11/2021	2	0.9	< 1	< 0.01	< 0.2
WS-N03	0.5	15/10/2021	< 1	2	< 1	< 0.01	< 0.2
WS-N04	0.2	13/07/2021	17	0.8	< 1	< 0.01	< 0.2
WS-N04A	0.1	12/07/2021	2	0.6	< 1	< 0.01	< 0.2
WS-N04A	0.5	12/07/2021	2	0.6	< 1	< 0.01	< 0.2
WS-N05	1	19/07/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
WS-N05A	0.5	14/07/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
WS-N06	0.2	15/07/2021	19	0.9	< 1	< 0.01	< 0.2
WS-N06A	0.5	16/07/2021	< 1	0.7	< 1	< 0.01	< 0.2
WS-N07	0.2	26/11/2021	12	1.7	< 1	< 0.01	< 0.2

Project Name: M60/M62/M66 Simister Island

Sample Date: 28/06/2021 - 03/03/2023

Analyte Unit			Arsenic mg/kg	Cadmium mg/kg	Cyanide Free mg/kg	Benzene mg/kg	Phenol mg/kg
SoBRA AGAC Oral (Child)			80	140	24	47	2,000
SoBRA AGAC Inhalation (Child)			7,000,000	1,800,000	380	190	>sat
SoBRA AGAC Dermal (Child)						>sat	
SoBRA AGAC Oral (Adult)			7,000	12,000	2,100	4,100	>sat
SoBRA AGAC Inhalation (Adult)			14,000,000	3,500,000	1,400	370	>sat
SoBRA AGAC Dermal (Adult)						>sat	
Location ID	Sample Depth (m)	Sample Date					
WS-N08	0.25	10/08/2021	8	1.2	< 1	< 0.01	< 0.2
WS-N09	0.2	20/07/2021	12	0.5	1	< 0.01	< 0.2
WS-N10	0.2	17/09/2021	17	1.7	< 1	< 0.01	< 0.2
WS-N10	2.5	17/09/2021	2	< 0.5	< 1	< 0.01	< 0.2
WS-N11	0.5	06/08/2021	11	0.9	< 1	< 0.01	< 0.2
WS-N11	1	06/08/2021	287	1.4	2	< 0.01	< 0.2
WS-N12	0.1	22/07/2021	2	< 0.5	< 1	< 0.01	< 0.2
WS-N12C	0.5	26/07/2021	3	< 0.5	< 1	< 0.01	< 0.2
WS-N12C	2.2	26/07/2021	< 1	1.3	< 1	< 0.01	< 0.2
WS-N13	0.1	15/10/2021	4	1.8	< 1	< 0.01	< 0.2
WS-N14	0.1	15/10/2021	11	2.4	< 1	< 0.01	< 0.2
WS-N15	0.2	28/09/2021	8	< 0.5	< 1	< 0.01	< 0.2
WS-N16	0.2	21/11/2021	< 1	1	< 1	< 0.01	< 0.2
WS-P01	0.5	21/07/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
WS-P02	0.1	10/11/2021	11	< 0.5	< 1	< 0.01	< 0.2
WS-P03	0.1	08/11/2021	19	0.7	3	< 0.01	< 0.2
WS-P04	0.5	08/11/2021	6	< 0.5	< 1	< 0.01	< 0.2
WS-P06	0.2	25/11/2021	3	< 0.5	< 1	< 0.01	< 0.2
WS-P09	0.2	30/11/2021	11	0.8	< 1	< 0.01	< 0.2
WS-P09	0.5	30/11/2021	< 1	0.6	< 1	< 0.01	< 0.2
WS-S01	0.65	24/08/2021	1	0.7	< 1	< 0.01	< 0.2
WS-S02	0.5	01/09/2021	< 1	< 0.5	< 1	< 0.01	< 0.2
WS-S02	3.1	01/09/2021	120	1.3	< 1	< 0.01	< 0.2
WS-S03	1	23/08/2021	< 1	0.7	< 1	< 0.01	< 0.2
WS-S03	1.8	23/08/2021	< 1	0.8	< 1	< 0.01	< 0.2

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 03/03/2023

Analyte Unit			Arsenic mg/kg	Cadmium mg/kg	Cyanide Free mg/kg	Benzene mg/kg	Phenol mg/kg
SoBRA AGAC Oral (Child)			80	140	24	47	2,000
SoBRA AGAC Inhalation (Child)			7,000,000	1,800,000	380	190	>sat
SoBRA AGAC Dermal (Child)						>sat	
SoBRA AGAC Oral (Adult)			7,000	12,000	2,100	4,100	>sat
SoBRA AGAC Inhalation (Adult)			14,000,000	3,500,000	1,400	370	>sat
SoBRA AGAC Dermal (Adult)						>sat	
Location ID	Sample Depth (m)	Sample Date					
WS-S04	0.2	17/09/2021	3	< 0.5	< 1	< 0.01	< 0.2
WS-S05	0.2	17/09/2021	10	0.5	< 1	< 0.01	< 0.2
WS-S06	0.5	06/08/2021	2	0.6	< 1	< 0.01	< 0.2
WS-S06A	0.5	11/08/2021	5	0.6	< 1	< 0.01	< 0.2

Comments

AGAC - Acute Generic Assessment Criteria
(blank) - no assessment criteria available
mg/kg - milligrams per kilogram
>sat - greater than soil saturation limit

SoBRA (July 2020) - Development of Acute Generic Assessment Criteria for Assessing Risks to Human Health from Contaminants in Soil. Version 2

Key

XXX	Exceedance of Oral AGAC (Child)
XXX	Exceedance of Inhalation AGAC (Child)
XXX	Exceedance of Dermal AGAC (Child)
XXX	Exceedance of Oral AGAC (Adult)
XXX	Exceedance of Inhalation AGAC (Adult)
XXX	Exceedance of Dermal AGAC (Adult)

Annex H. Controlled Waters GQRA Screening Tables

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	BH04	BH04	BH05	BH06	BH07	BH12	BH-G01
							Sampled Date	15/02/2023	17/02/2023	17/02/2023	20/02/2023	27/02/2023	16/01/2023	20/07/2021
							Top Depth (m)	1	4	4	4	3	1	0.95
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	8.4	7.9	8.6	10.3	8.5	8.3	7.73	
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016							<5	
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<1	<1	2.5	<1	<1	<1	<5	
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<5	
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	<200	<200	<200	<200	<200	<200	400	
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		0.051	0.051	0.035	<0.015	0.019	0.049	<0.02	
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	24	20	37	54	77	13	58.96	
Inorganics	Nitrite	mg/l	0.01										<0.1	
Inorganics	Nitrite as N	mg/l	0.01				0.0014	<0.001	<0.001	0.0093	<0.001	0.0043	<0.1	
Inorganics	Nitrate	mg/l											0.3	
Inorganics	Nitrate as N	mg/l					0.09	0.03	0.06	0.11	0.18	0.06	0.3	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016							21.62	
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	7.3	10	16.3	97.8	12.6	6.8	21.62	
Inorganics	Sulphide	mg/l											<0.1	
Inorganics	Sodium	mg/l		200		WS Regs 2016	26	13	45	60	51	21	98	
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016							64	
Metals	Aluminium(Available)	ug/l					1400	520	1100	2800	240	110	64	
Metals	Antimony	ug/l		5		WS Regs 2016	<1.7	<1.7	<1.7	32	7.4	<1.7	<1	
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	2.3	160	88	71	4.7	2	
Metals	Barium	ug/l		1300		WHO DWG 2017	27	11	100	64	110	28	208	
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	<10	<10	55	1900	130	<10	25	
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<1	
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	7.7	17	13	<5	<50	
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	5.1	<5	<5	<5	<50	
Metals	Chromium	ug/l		50		WS Regs 2016	2.4	0.5	13	16	13	<0.4	2	
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	5	5.7	5.2	4.4	5.5	1.9	7	
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	870	110	510	17	37	37	508	
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	2.2	<1	1.1	1.8	5	
Metals	Magnesium	ug/l					1100	680	1700	1500	6400	1000	4000	
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	62	45	50	20	43	25	55	
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	1.4	1.8	1.9	<0.3	0.6	<0.3	2	
Metals	Potassium	ug/l					1300	770	2000	4400	3000	1300	17000	
Metals	Selenium	ug/l		10		WS Regs 2016	<4	<4	<4	23	28	<4	1	
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	1.7	2.2	76	87	39	<1.7	3	
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	7.1	13	3.7	4.4	7.4	0.5	14	
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<10	
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	39	
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	40	
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	61	
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<20	
TPHCWG	TPH Aromatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	61	
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l											101	
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	
PAH	Fluorene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	
PAH	Acenaphthylene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	
PAH	Acenaphthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

Sample Location							BH04	BH04	BH05	BH06	BH07	BH12	BH-G01
Sampled Date							15/02/2023	17/02/2023	17/02/2023	20/02/2023	27/02/2023	16/01/2023	20/07/2021
Top Depth (m)							1	4	4	4	3	1	0.95
End Depth (m)													
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Phenanthrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Benzo[a]anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Chrysene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Benzo[b]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Benzo[k]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Dibenz(a,h)Anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
PAH	PAH, Total Detected USEPA 16	ug/l					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.02
PAH	Total PAH 16	ug/l											0.02
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<3	<3	<3	<3	<3	<3	<1
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<3	<3	<3	<3	<3	<3	<1
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<3	<3	<3	<3	<3	<3	<1
VOC	m & p-Xylene	ug/l											<1
VOC	Xylenes, m & p	ug/l					<3	<3	<3	<3	<3	<3	<1
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<3	<3	<3	<3	<3	<3	<1
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<10	<10	<10	<10	<10	<10	<1
Phenols	Isopropyl Phenol	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
Phenols	Catechol	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Phenols	Resorcinol	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
Phenols	Methylphenols (Total Cresols)	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
Phenols	Trimethylphenol	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Phenols	Naphthols	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Phenols	Xylenols	ug/l											<0.01
Phenols	Xylenols & Ethylphenols	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
Phenols	Total Phenols	ug/l											<0.01
Phenols	Total Phenols	ug/l					<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<10

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
 ug/l - micrograms per litre
 mg/l - milligrams per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

						Sample Location	BH-G04	BH-G06	BH-N01	BH-N02	BH-N03	BH-N04	BH-N06B
						Sampled Date	15/07/2021	03/11/2021	16/08/2021	12/08/2021	11/10/2021	21/10/2021	04/08/2021
						Top Depth (m)	0.5	0.5	0.5	0.5	1	0.2	0.5
						End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	8.09	7.95	9.03	7.73	7.91	6.88	9
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<5	<5	<5
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	800	<100	<100	<100	<100	300	<100
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		<0.02	<0.02	<0.02	<0.02	0.33	0.08	<0.02
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	199	<1	17.7	9.8	6.66	2.93	57.85
Inorganics	Nitrite	mg/l	0.01				0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Nitrite as N	mg/l	0.01				0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Nitrate	mg/l					7.5	0.2	<0.1	<0.1	<0.1	2.2	3.4
Inorganics	Nitrate as N	mg/l					7.5	0.2	<0.1	<0.1	<0.1	2.2	3.4
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	314.22	7.51	1.54	5.16	41.64	<1	7.38
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	314.22	7.51	1.54	5.16	41.64	<1	7.38
Inorganics	Sulphide	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Sodium	mg/l		200		WS Regs 2016	185	2	21	4	4	3	76
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	129	1590	155	432	865	70100	961
Metals	Aluminium(Available)	ug/l					129	1590	155	432	865	70100	961
Metals	Antimony	ug/l		5		WS Regs 2016	2	<1	<1	<1	1	<1	1
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	5	<1	<1	<1	4	1	3
Metals	Barium	ug/l		1300		WHO DWG 2017	48	19	25	76	83	195	386
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	180	<10	<10	13	37	<10	11
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50
Metals	Chromium	ug/l		50		WS Regs 2016	25	<1	2	<1	<1	2	4
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	5	2	3	6	15	24	19
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	21	16	76	335	646	809	1540
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	2	<1	1	3	33	35	48
Metals	Magnesium	ug/l					34000	1000	<1000	4000	8000	13000	7000
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	4	<1	64	5	316	67	585
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	1	<1	2	8	12
Metals	Potassium	ug/l					14000	<1200	<1200	3000	10000	27000	18000
Metals	Selenium	ug/l		10		WS Regs 2016	2	<1	<1	<1	<1	<1	2
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	8	<1	2	1	4	2	6
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	10	2	6	2	9	34	68
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	3
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<20	<20
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	28	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	22	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<20	<20
TPHCWG	TPH Aromatic >C5-C35	ug/l					50	<20	<20	<20	<20	<20	<20
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					50	<20	<20	<20	<60	<80	<20
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		<0.02	0.02	<0.02	<0.02	0.02	<0.02	0.04
PAH	Fluorene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.05	<0.02
PAH	Acenaphthylene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Acenaphthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.07	<0.02

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	BH-G04	BH-G06	BH-N01	BH-N02	BH-N03	BH-N04	BH-N06B
							Sampled Date	15/07/2021	03/11/2021	16/08/2021	12/08/2021	11/10/2021	21/10/2021	04/08/2021
							Top Depth (m)	0.5	0.5	0.5	0.5	1	0.2	0.5
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		0.04	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02
PAH	Phenanthrene	ug/l					0.02	0.03	<0.02	<0.02	<0.02	<0.02	0.15	<0.02
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	0.04	<0.02	<0.02	<0.02	<0.02	0.09	0.04	<0.02
PAH	Pyrene	ug/l					0.12	<0.02	<0.02	<0.02	<0.02	0.09	0.02	<0.02
PAH	Benzo[a]anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02
PAH	Chrysene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.05	<0.02	<0.02
PAH	Benzo[b]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02
PAH	Benzo[k]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.02	<0.02	<0.02	<0.02	<0.02	0.05	<0.02	<0.02
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
PAH	Dibenz(a,h)Anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02
PAH	PAH, Total Detected USEPA 16	ug/l					0.22	0.05	<0.02	<0.02	<0.02	0.47	0.35	0.04
PAH	Total PAH 16	ug/l					0.22	0.05	<0.02	<0.02	<0.02	0.47	0.35	0.04
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1	<1	<1	<1	<1
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<1	<1	<1	<1
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<1	<1	<1	<1	<1	<1	<1	1
Phenols	Isopropyl Phenol	ug/l												
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	20	<10	<10	<10	<10	<10	<10	<10
Phenols	Catechol	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Resorcinol	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Methylphenols (Total Cresols)	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Trimethylphenol	ug/l												
Phenols	Naphthols	ug/l												
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Total Phenols	ug/l					20	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Total Phenols	ug/l					20	<10	<10	<10	<10	<10	<10	<10

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
 ug/l - micrograms per litre
 mg/l - milligrams per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

		Sample Location					BH-N07	BH-N09	BH-N10	BH-N11	BH-N13	BH-N15	BH-N17
		Sampled Date					03/08/2021	28/06/2021	06/10/2021	06/09/2021	20/07/2021	24/11/2021	01/07/2021
		Top Depth (m)					1	0.5	0.5	0.25	0.5	0.5	0.2
		End Depth (m)											
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	6.68	6.58	5.99	6.14	8.81	7.44	7.55
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<5	<5	<5
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	<100	<100	<100	<100	<100	700	<100
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		0.48	1.94	<0.02	<0.02	<0.02	<0.02	<0.02
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	1.43	18.58	5.16	1.73	28.79	2.92	1.08
Inorganics	Nitrite	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Nitrite as N	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Nitrate	mg/l					0.4	2	<0.1	6.5	3.2	0.7	2.3
Inorganics	Nitrate as N	mg/l					0.4	2	<0.1	6.5	3.2	0.7	2.3
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	16.88	<1	8.74	<1	18.83	<1	31.9
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Sulphide	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	16.88	<1	8.74	<1	18.83	<1	31.9
Inorganics	Sulphide	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Sodium	mg/l		200		WS Regs 2016	2	5	5	3	25	2	2
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	3610	2390	1520	12000	252	4350	1480
Metals	Aluminium(Available)	ug/l					3610	2390	1520	12000	252	4350	1480
Metals	Antimony	ug/l		5		WS Regs 2016	2	<1	2	11	<1	<1	<1
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	4	3	2	7	<1	<1	<1
Metals	Barium	ug/l		1300		WHO DWG 2017	127	108	64	74	24	115	87
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	58	12	<10	27	11	<10	32
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50
Metals	Chromium	ug/l		50		WS Regs 2016	4	2	2	3	<1	<1	<1
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	43	26	18	38	2	9	2
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	3140	2040	1100	2200	24	667	12
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	49	52	96	144	<1	9	<1
Metals	Magnesium	ug/l					6000	9000	3000	2000	1000	<1000	6000
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	352	156	29	150	2	34	1
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	3	9	5	7	<1	1	<1
Metals	Potassium	ug/l					12000	24000	5000	3000	<1200	<1200	3000
Metals	Selenium	ug/l		10		WS Regs 2016	1	<1	<1	<1	<1	<1	<1
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	7	9	18	7	<1	1	<1
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	12	18	32	46	2	6	4
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<20	<20
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<20	<20
TPHCWG	TPH Aromatic >C5-C35	ug/l					<20	<20	<20	<20	<20	<20	<20
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					<20	<100	<20	<20	<20	<20	<20
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		<0.02	<0.02	0.07	<0.02	<0.02	0.05	<0.02
PAH	Fluorene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Acenaphthylene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Acenaphthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	BH-N07	BH-N09	BH-N10	BH-N11	BH-N13	BH-N15	BH-N17
							Sampled Date	03/08/2021	28/06/2021	06/10/2021	06/09/2021	20/07/2021	24/11/2021	01/07/2021
							Top Depth (m)	1	0.5	0.5	0.25	0.5	0.5	0.2
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Phenanthrene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Pyrene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[a]anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Chrysene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[b]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[k]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Dibenz(a,h)Anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	PAH, Total Detected USEPA 16	ug/l					<0.02	<0.02	0.07	<0.02	<0.02	<0.02	0.05	<0.02
PAH	Total PAH 16	ug/l					<0.02	<0.02	0.07	<0.02	<0.02	<0.02	0.05	<0.02
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1	<1	<1	<1	<1
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<1	<1	<1	<1
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		1	<1	<1	<1	<1	<1	<1	<1
Phenols	Isopropyl Phenol	ug/l												
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Catechol	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Resorcinol	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Methylphenols (Total Cresols)	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Trimethylphenol	ug/l												
Phenols	Naphthols	ug/l												
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Total Phenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Total Phenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
 ug/l - micrograms per litre
 mg/l - milligrams per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

						Sample Location	BH-N170B	BH-N180B	BH-N19	BH-N21	BH-P02	BH-P03	BH-P03
						Sampled Date	16/09/2021	16/09/2021	22/09/2021	10/09/2021	02/12/2021	01/12/2021	01/12/2021
						Top Depth (m)	0.2	0.2	0.25	0.25	0.2	0.2	1
						End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	5.81	7.15	7.45	6.53	8.33	8.01	7.86
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<5	<5	<5
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	1900	<100	<100	<100	<100	<100	<100
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		0.77	1.24	0.03	<0.02	0.02	0.19	3.92
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	12.15	5.75	1.84	8.91	7.31	2.09	2.86
Inorganics	Nitrite	mg/l	0.01				<0.1	0.1	0.2	<0.1	0.1	<0.1	<0.1
Inorganics	Nitrite as N	mg/l	0.01				<0.1	0.1	0.2	<0.1	0.1	<0.1	<0.1
Inorganics	Nitrate	mg/l					1	7.3	7.6	11.5	7.2	<0.1	<0.1
Inorganics	Nitrate as N	mg/l					1	7.3	7.6	11.5	7.2	<0.1	<0.1
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	<1	22.31	<1	3.61	23.92	41.36	1.11
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	<1	22.31	<1	3.61	23.92	41.36	1.11
Inorganics	Sulphide	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Sodium	mg/l		200		WS Regs 2016	3	4	7	2	5	2	3
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	4410	266	1350	14300	15200	2440	4810
Metals	Aluminium(Available)	ug/l					4410	266	1350	14300	15200	2440	4810
Metals	Antimony	ug/l		5		WS Regs 2016	2	2	1	2	2	5	2
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	3	<1	3	5	4	2	6
Metals	Barium	ug/l		1300		WHO DWG 2017	250	92	63	72	60	75	176
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	19	12	29	28	<10	34	26
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50
Metals	Chromium	ug/l		50		WS Regs 2016	1	<1	7	2	2	<1	<1
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	37	8	8	35	12	5	9
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	1780	243	303	1480	1670	369	653
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	121	12	15	96	32	7	12
Metals	Magnesium	ug/l					20000	8000	2000	2000	2000	5000	6000
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	53	13	49	91	42	107	105
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	7	1	1	6	2	2	2
Metals	Potassium	ug/l					41000	6000	4000	3000	2000	2000	4000
Metals	Selenium	ug/l		10		WS Regs 2016	<1	<1	<1	<1	<1	<1	<1
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	8	<1	3	4	6	2	3
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	28	6	29	33	9	6	13
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<20	58
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	58
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	11
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<20	<20
TPHCWG	TPH Aromatic >C5-C35	ug/l					<20	<20	<20	<20	<20	<20	<20
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					<20	<20	<20	<20	<20	<20	69
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		0.04	0.08	<0.02	<0.02	0.03	0.04	0.07
PAH	Fluorene	ug/l					0.04	0.07	<0.02	<0.02	<0.02	<0.02	0.04
PAH	Acenaphthylene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Acenaphthene	ug/l					0.03	0.05	<0.02	<0.02	<0.02	0.02	0.13

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	BH-N170B	BH-N180B	BH-N19	BH-N21	BH-P02	BH-P03	BH-P03
							Sampled Date	16/09/2021	16/09/2021	22/09/2021	10/09/2021	02/12/2021	01/12/2021	01/12/2021
							Top Depth (m)	0.2	0.2	0.25	0.25	0.2	0.2	1
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.02	0.04	0.03	<0.02	<0.02	<0.02	<0.02	
PAH	Phenanthrene	ug/l					0.15	0.25	0.04	<0.02	<0.02	0.03	0.04	
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	0.05	0.07	0.29	<0.02	<0.02	0.03	<0.02	
PAH	Pyrene	ug/l					0.04	0.05	0.34	<0.02	<0.02	0.03	<0.02	
PAH	Benzo[a]anthracene	ug/l					<0.02	<0.02	0.18	<0.02	<0.02	<0.02	<0.02	
PAH	Chrysene	ug/l					<0.02	<0.02	0.26	<0.02	<0.02	<0.02	<0.02	
PAH	Benzo[b]fluoranthene	ug/l					<0.02	<0.02	0.4	<0.02	<0.02	<0.02	<0.02	
PAH	Benzo[k]fluoranthene	ug/l					<0.02	<0.02	0.16	<0.02	<0.02	<0.02	<0.02	
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.02	<0.02	0.39	<0.02	<0.02	<0.02	<0.02	
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.02	<0.02	0.41	<0.02	<0.02	<0.02	<0.02	
PAH	Dibenz(a,h)Anthracene	ug/l					<0.02	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.02	<0.02	0.46	<0.02	<0.02	<0.02	<0.02	
PAH	PAH, Total Detected USEPA 16	ug/l					0.35	0.61	3.05	<0.02	0.03	0.15	0.28	
PAH	Total PAH 16	ug/l					0.35	0.61	3.05	<0.02	0.03	0.15	0.28	
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1	<1	<1	<1	
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<1	<1	<1	
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<1	<1	<1	
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<1	<1	<1	<1	<1	<1	<1	
Phenols	Isopropyl Phenol	ug/l												
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<10	<10	<10	<10	<10	<10	<10	
Phenols	Catechol	ug/l												
Phenols	Resorcinol	ug/l					<10	<10	<10	<10	<10	<10	<10	
Phenols	Methylphenols (Total Cresols)	ug/l					<10	<10	<10	<10	<10	<10	<10	
Phenols	Trimethylphenol	ug/l												
Phenols	Naphthols	ug/l												
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10	<10	<10	<10	
Phenols	Total Phenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Phenols	Total Phenols	ug/l					<10	<10	<10	<10	<10	<10	<10	

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
 ug/l - micrograms per litre
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 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	BH-S01	BH-S03	BH-S05	BH-S06	BH-S07	BHWS02	BHWS09
							Sampled Date	18/08/2021	25/10/2021	02/09/2021	23/08/2021	12/08/2021	06/02/2023	08/02/2023
							Top Depth (m)	1	0.8	0.25	0.5	0.25	3	2
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	8.34	8.07	8.12	11.81	7.82	7.4	10.5	
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<1	<1	
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<5	<1	<1	
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<1	<1	
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	400	<100	100	200	300	<200	<200	
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		<0.02	<0.02	<0.02	0.1	<0.02	<0.015	0.029	
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	153.56	18.14	1.65	91.85	2.27	17	40	
Inorganics	Nitrite	mg/l	0.01				<0.1	0.7	<0.1	2.3	<0.1			
Inorganics	Nitrite as N	mg/l	0.01				<0.1	0.7	<0.1	2.3	<0.1	<0.001	0.054	
Inorganics	Nitrate	mg/l					<0.1	18.8	0.7	7	1.6			
Inorganics	Nitrate as N	mg/l					<0.1	18.8	0.7	7	1.6	0.14	0.16	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	7.28	<1	<1	41.84	<1			
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	<0.005	<0.005	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	7.28	<1	<1	41.84	<1	5.6	80.5	
Inorganics	Sulphide	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1			
Inorganics	Sodium	mg/l		200		WS Regs 2016	167	41	1	33	7	9.7	42	
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	3080	495	424	971	998			
Metals	Aluminium(Available)	ug/l					3080	495	424	971	998	330	6800	
Metals	Antimony	ug/l		5		WS Regs 2016	<1	<1	1	<1	1	<1.7	11	
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	1	1	<1	<1	7	1.7	74	
Metals	Barium	ug/l		1300		WHO DWG 2017	11	4	9	88	470	11	48	
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	<10	10	<10	<10	<10	<10	950	
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<0.08	<0.08	
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	160	<50	<5	<5	
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<5	5.7	
Metals	Chromium	ug/l		50		WS Regs 2016	4	2	<1	170	4	0.8	5.7	
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	4	28	55	5.7	7.3	
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	107	<10	23	32	1790	720	79	
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	2	77	<1	<1	
Metals	Magnesium	ug/l					<1000	<1000	<1000	<1000	61000	1800	590	
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	57	3	3	1	425	41	23	
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	3	5	0.8	0.4	
Metals	Potassium	ug/l					2000	3000	2000	58000	72000	1200	3800	
Metals	Selenium	ug/l		10		WS Regs 2016	<1	<1	<1	<1	2	<4	26	
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	<1	<1	<1	4	14	<1.7	82	
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	3	3	2	1	120	11	6.4	
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<1	<1	
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<10	<10	
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	12	<10	<1	<1	
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	21	<10	<10	<10	
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	40	<10	<10	<10	
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<20	<20	<20	74	<20	<10	<10	
TPHCWG	TPH Aromatic >C5-C35	ug/l					<20	<20	<20	147	<20	<10	<10	
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					<20	<20	<20	147	<20	<10	<10	
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		<0.02	0.05	0.04	0.41	<0.02	<0.01	<0.01	
PAH	Fluorene	ug/l					<0.02	<0.02	<0.02	0.1	<0.02	<0.01	<0.01	
PAH	Acenaphthylene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	
PAH	Acenaphthene	ug/l					<0.02	<0.02	<0.02	0.32	<0.02	<0.01	<0.01	

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							Sample Location	BH-S01	BH-S03	BH-S05	BH-S06	BH-S07	BHWS02	BHWS09
							Sampled Date	18/08/2021	25/10/2021	02/09/2021	23/08/2021	12/08/2021	06/02/2023	08/02/2023
							Top Depth (m)	1	0.8	0.25	0.5	0.25	3	2
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.02	<0.02	<0.02	0.06	<0.02	<0.01	<0.01	
PAH	Phenanthrene	ug/l					<0.02	<0.02	<0.02	0.22	<0.02	<0.01	<0.01	
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.02	0.02	<0.02	0.2	<0.02	<0.01	<0.01	
PAH	Pyrene	ug/l					<0.02	<0.02	<0.02	0.16	0.02	<0.01	<0.01	
PAH	Benzo[a]anthracene	ug/l					<0.02	<0.02	<0.02	0.06	<0.02	<0.01	<0.01	
PAH	Chrysene	ug/l					<0.02	<0.02	<0.02	0.06	<0.02	<0.01	<0.01	
PAH	Benzo[b]fluoranthene	ug/l					<0.02	<0.02	<0.02	0.05	0.02	<0.01	<0.01	
PAH	Benzo[k]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.02	<0.02	<0.02	0.03	<0.02	<0.01	<0.01	
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.02	<0.02	<0.02	<0.02	0.02	<0.01	<0.01	
PAH	Dibenz(a,h)Anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.02	<0.02	<0.02	<0.02	0.02	<0.01	<0.01	
PAH	PAH, Total Detected USEPA 16	ug/l					<0.02	0.07	0.04	1.67	0.08	<0.2	<0.2	
PAH	Total PAH 16	ug/l					<0.02	0.07	0.04	1.67	0.08			
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<3	<3	
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<3	<3	
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<3	<3	
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1	<1			
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<1	<3	<3	
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<1	<3	<3	
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<1	<1	<1	<1	<1	<10	<10	
Phenols	Isopropyl Phenol	ug/l										<0.5	<0.5	
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<10	<10	<10	<10	<10	<0.5	<0.5	
Phenols	Catechol	ug/l					<10	<10	<10	<10	<10	<0.5	<0.5	
Phenols	Resorcinol	ug/l					<10	<10	<10	<10	<10	<0.5	<0.5	
Phenols	Methylphenols (Total Cresols)	ug/l					<10	<10	<10	<10	<10	<0.5	<0.5	
Phenols	Trimethylphenol	ug/l										<0.5	<0.5	
Phenols	Naphthols	ug/l										<0.5	<0.5	
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01			
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10	<10	<0.5	<0.5	
Phenols	Total Phenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01			
Phenols	Total Phenols	ug/l					<10	<10	<10	<10	<10	<3.5	<3.5	

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
 ug/l - micrograms per litre
 mg/l - milligrams per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

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							Sample Location	BHWS10	HDP04	HDP06	HDP07	HDP08	HDP09	HDP11
							Sampled Date	26/01/2023	01/02/2023	01/02/2023	02/02/2023	31/01/2023	03/02/2023	30/01/2023
							Top Depth (m)	4.5	0.25	0.5	0.5	1	1.35	0.5
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	9.7	7.4	7.4	7.3	7.6	8.7	7.5	
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016								
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<1	<1	<1	<1	<1	<1	1.3	
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	<200	<200	<200	530	<200	<200	<200	
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	25	3.5	6.3	1.8	3.9	17	1.6	
Inorganics	Nitrite	mg/l	0.01											
Inorganics	Nitrite as N	mg/l	0.01				0.003	<0.001	0.0076	<0.001	0.0056	0.002	0.0018	
Inorganics	Nitrate	mg/l												
Inorganics	Nitrate as N	mg/l					0.28	0.15	0.16	0.22	0.22	0.05	0.23	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016								
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	93.9	4.1	5.2	3.2	3.4	54.9	1.4	
Inorganics	Sulphide	mg/l												
Inorganics	Sodium	mg/l		200		WS Regs 2016	49	7.8	9.9	5.6	17	23	3.8	
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016								
Metals	Aluminium(Available)	ug/l					2900	27	41	49	170	1800	68	
Metals	Antimony	ug/l		5		WS Regs 2016	26	<1.7	<1.7	<1.7	<1.7	14	<1.7	
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	100	1.4	<1	<1	<1	77	<1	
Metals	Barium	ug/l		1300		WHO DWG 2017	45	32	31	31	7.5	47	9.8	
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	2400	<10	<10	<10	<10	800	51	
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	9.1	<5	<5	<5	<5	<5	<5	
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	5.8	<5	
Metals	Chromium	ug/l		50		WS Regs 2016	9.4	<0.4	<0.4	<0.4	0.7	5.8	0.8	
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	5.1	6	4.1	5.7	8.9	4.9	9.7	
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	32	37	27	26	190	97	240	
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	1.4	<1	
Metals	Magnesium	ug/l					5000	1500	1400	1300	530	1000	540	
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	42	36	34	51	19	36	38	
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	<0.3	0.6	<0.3	0.6	0.5	<0.3	0.5	
Metals	Potassium	ug/l					3300	1100	830	850	1000	5900	820	
Metals	Selenium	ug/l		10		WS Regs 2016	27	<4	<4	<4	<4	17	<4	
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	69	<1.7	<1.7	<1.7	2.7	36	<1.7	
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	4.7	2.8	2.1	3.7	3.3	10	7.8	
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l												
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PAH	Fluorene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PAH	Acenaphthylene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PAH	Acenaphthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	BHWS10	HDP04	HDP06	HDP07	HDP08	HDP09	HDP11
							Sampled Date	26/01/2023	01/02/2023	01/02/2023	02/02/2023	31/01/2023	03/02/2023	30/01/2023
							Top Depth (m)	4.5	0.25	0.5	0.5	1	1.35	0.5
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Phenanthrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[a]anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Chrysene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[b]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[k]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Dibenz(a,h)Anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	PAH, Total Detected USEPA 16	ug/l					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
PAH	Total PAH 16	ug/l												
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<3	<3	<3	<3	<3	<3	<3	<3
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<3	<3	<3	<3	<3	<3	<3	<3
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<3	<3	<3	<3	<3	<3	<3	<3
VOC	m & p-Xylene	ug/l												
VOC	Xylenes, m & p	ug/l					<3	<3	<3	<3	<3	<3	<3	<3
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<3	<3	<3	<3	<3	<3	<3	<3
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Isopropyl Phenol	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	Catechol	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	Resorcinol	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	Methylphenols (Total Cresols)	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	Trimethylphenol	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	Naphthols	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	Xylenols	ug/l												
Phenols	Xylenols & Ethylphenols	ug/l					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenols	Total Phenols	ug/l												
Phenols	Total Phenols	ug/l					<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
 ug/l - micrograms per litre
 mg/l - milligrams per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

						Sample Location	WS07	WS08	WS09	WS2	WS-G08A	WS-N02A	WS-N04A
						Sampled Date	13/01/2022	18/01/2023	19/01/2023	29/11/2022	12/11/2021	06/08/2021	12/07/2021
						Top Depth (m)	0.7	1.1	1.1	0.6	0.1	1	0.1
						End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	8.4	8.5	9.1	7.4	7.75	8.13	6.52
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016					<5	<5	<5
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<1	<1	2.1	<1	<5	<5	<5
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<5	<5	<5
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	<200	<200	<200	<200	<100	1200	<100
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		0.032	<0.015	<0.015	0.023	<0.02	0.08	0.11
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	23	31	55	1.1	1.54	270	5.07
Inorganics	Nitrite	mg/l	0.01								<0.1	<0.1	0.2
Inorganics	Nitrite as N	mg/l	0.01				<0.001	<0.001	<0.001	<0.001	<0.1	<0.1	0.2
Inorganics	Nitrate	mg/l									0.4	0.2	3.3
Inorganics	Nitrate as N	mg/l					0.08	0.04	0.02	0.29	0.4	0.2	3.3
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016					2.7	38.2	3.5
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.005	<0.005	<0.005	<0.005	0.1	<0.1	<0.1
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	2.8	4.4	5.1	2.1	2.7	38.2	3.5
Inorganics	Sulphide	mg/l									0.1	<0.1	<0.1
Inorganics	Sodium	mg/l		200		WS Regs 2016	25	40	63	1.6	2	251	4
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016					111	1330	4120
Metals	Aluminium(Available)	ug/l					800	400	900	300	111	1330	4120
Metals	Antimony	ug/l		5		WS Regs 2016	<1.7	<1.7	<1.7	<1.7	<1	5	2
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	3.6	2.6	<1	1.1	<1	46	9
Metals	Barium	ug/l		1300		WHO DWG 2017	29	26	12	6.5	44	457	232
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	<10	<10	<10	<10	<10	70	32
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<0.08	<0.08	<0.08	<0.08	<1	2	1
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5		<50	<50	<50
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5		<50	<50	<50
Metals	Chromium	ug/l		50		WS Regs 2016	4.1	2.9	1.7	0.9	<1	19	3
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	5.3	7.2	12	21	7	211	62
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	630	270	640	1400	344	4030	7980
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	1.8	<1	2.7	17	308	194
Metals	Magnesium	ug/l					930	780	590	520	2000	31000	6000
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	180	180	61	35	12	2970	247
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	1.7	2.2	3.8	1.4	<1	14	21
Metals	Potassium	ug/l					1300	1100	1200	630	3000	80000	11000
Metals	Selenium	ug/l		10		WS Regs 2016	<4	<4	4.1	<4	<1	4	<1
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	2.8	3.9	8.7	<1.7	1	45	14
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	7.2	7.8	2.2	10	17	816	51
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	3	<1
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<1	<1	<1	<1	<10	<10	11
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<20	<20	36
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	47
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<1	<1	<1	<1	20	<10	89
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<20	<20	52
TPHCWG	TPH Aromatic >C5-C35	ug/l					<10	<10	<10	<10	20	<20	141
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l									20	<20	188
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.02	0.03	<0.02
PAH	Fluorene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
PAH	Acenaphthylene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
PAH	Acenaphthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	WS07	WS08	WS09	WS2	WS-G08A	WS-N02A	WS-N04A
							Sampled Date	13/01/2022	18/01/2023	19/01/2023	29/11/2022	12/11/2021	06/08/2021	12/07/2021
							Top Depth (m)	0.7	1.1	1.1	0.6	0.1	1	0.1
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	Phenanthrene	ug/l					<0.01	<0.01	<0.01	<0.01	0.02	0.05	0.03	
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.01	<0.01	<0.01	<0.01	<0.02	0.04	<0.02	
PAH	Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	0.04	<0.02	
PAH	Benzo[a]anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	Chrysene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	Benzo[b]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	Benzo[k]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	Dibenz(a,h)Anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
PAH	PAH, Total Detected USEPA 16	ug/l					<0.2	<0.2	<0.2	<0.2	0.02	0.16	0.03	
PAH	Total PAH 16	ug/l									0.02	0.16	0.03	
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<3	<3	<3	<3	<1	<1	<1	
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<3	<3	<3	<3	<1	<1	<1	
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<3	<3	<3	<3	<1	<1	<1	
VOC	m & p-Xylene	ug/l									<1	<1	<1	
VOC	Xylenes, m & p	ug/l					<3	<3	<3	<3	<1	<1	<1	
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<3	<3	<3	<3	<1	<1	<1	
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<10	<10	<10	<10	<1	2	<1	
Phenols	Isopropyl Phenol	ug/l					<0.5	<0.5	<0.5	<0.5				
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	
Phenols	Catechol	ug/l					<0.5	<0.5	<0.5	<0.5				
Phenols	Resorcinol	ug/l					<0.5	<0.5	<0.5	<0.5	<10	<10	<10	
Phenols	Methylphenols (Total Cresols)	ug/l					<0.5	<0.5	<0.5	<0.5	<10	<10	<10	
Phenols	Trimethylphenol	ug/l					<0.5	<0.5	<0.5	<0.5				
Phenols	Naphthols	ug/l					<0.5	<0.5	<0.5	<0.5				
Phenols	Xylenols	ug/l									<0.01	<0.01	<0.01	
Phenols	Xylenols & Ethylphenols	ug/l					<0.5	<0.5	<0.5	<0.5	<10	<10	<10	
Phenols	Total Phenols	ug/l									<0.01	<0.01	<0.01	
Phenols	Total Phenols	ug/l					<3.5	<3.5	<3.5	<3.5	<10	<10	<10	

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
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Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	WS-N07	WS-N10	WS-N12	WS-N12C	WS-N13	WS-N16	WS-P02
							Sampled Date	26/11/2021	17/09/2021	22/07/2021	26/07/2021	15/10/2021	21/11/2021	10/11/2021
							Top Depth (m)	0.2	2.5	0.1	0.5	0.1	0.2	0.1
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	7.38	5.56	7.29	6.87	7.34	7.58	6.94	
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5	
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<5	<5	<5	
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5	
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	500	<100	<100	<100	<100	<100	<100	
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		<0.02	3.29	0.06	0.12	0.21	0.57	0.05	
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	10.67	21.09	6.83	31.83	12.63	4.33	3.24	
Inorganics	Nitrite	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Inorganics	Nitrite as N	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Inorganics	Nitrate	mg/l					14	0.5	0.6	0.6	2.6	<0.1	2.7	
Inorganics	Nitrate as N	mg/l					14	0.5	0.6	0.6	2.6	<0.1	2.7	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	16.43	<1	21.02	<1	<1	7.11	1.13	
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	16.43	<1	21.02	<1	<1	7.11	1.13	
Inorganics	Sulphide	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	
Inorganics	Sodium	mg/l		200		WS Regs 2016	14	4	4	5	3	2	1	
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	4550	1080	20500	88000	1850	707	3420	
Metals	Aluminium(Available)	ug/l					4550	1080	20500	88000	1850	707	3420	
Metals	Antimony	ug/l		5		WS Regs 2016	3	2	<1	3	1	<1	<1	
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	6	5	<1	<1	2	<1	<1	
Metals	Barium	ug/l		1300		WHO DWG 2017	263	82	89	287	166	264	15	
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	66	11	11	26	13	<10	<10	
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	2	<1	<1	<1	<1	<1	<1	
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50	
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50	
Metals	Chromium	ug/l		50		WS Regs 2016	4	3	<1	1	<1	<1	<1	
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	76	45	8	10	21	9	9	
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	2050	4360	420	646	398	389	373	
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	226	25	15	10	95	3	26	
Metals	Magnesium	ug/l					3000	4000	3000	15000	1000	7000	<1000	
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	377	62	26	110	86	124	15	
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	11	2	4	6	4	1	3	
Metals	Potassium	ug/l					4000	12000	6000	31000	<1200	9000	<1200	
Metals	Selenium	ug/l		10		WS Regs 2016	1	2	<1	<1	<1	<1	<1	
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	8	15	1	2	2	1	<1	
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	98	10	10	17	25	6	24	
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<20	<20	
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	17	22	21	<10	<10	
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<10	<10	13	17	<10	<10	<10	
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	11	<10	<10	<10	
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<20	<20	<20	<20	<20	<20	<20	
TPHCWG	TPH Aromatic >C5-C35	ug/l					<20	<20	30	50	21	<20	<20	
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					<20	<20	30	51	21	<20	<20	
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		0.06	0.03	0.14	0.1	<0.02	<0.02	<0.02	
PAH	Fluorene	ug/l					<0.02	0.04	0.02	0.02	<0.02	0.03	<0.02	
PAH	Acenaphthylene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Acenaphthene	ug/l					<0.02	0.03	0.03	<0.02	<0.02	0.05	<0.02	

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	WS-N07	WS-N10	WS-N12	WS-N12C	WS-N13	WS-N16	WS-P02
							Sampled Date	26/11/2021	17/09/2021	22/07/2021	26/07/2021	15/10/2021	21/11/2021	10/11/2021
							Top Depth (m)	0.2	2.5	0.1	0.5	0.1	0.2	0.1
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Phenanthrene	ug/l					0.04	0.12	0.11	0.09	0.07	0.05	<0.02	
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	0.03	0.02	0.06	0.04	0.04	<0.02	<0.02	
PAH	Pyrene	ug/l					0.03	<0.02	0.04	0.03	0.03	<0.02	<0.02	
PAH	Benzo[a]anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Chrysene	ug/l					0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Benzo[b]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Benzo[k]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Dibenz(a,h)Anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	PAH, Total Detected USEPA 16	ug/l					0.18	0.24	0.4	0.28	0.14	0.13	<0.02	
PAH	Total PAH 16	ug/l					0.18	0.24	0.4	0.28	0.14	0.13	<0.02	
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1	<1	<1	<1	
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<1	<1	<1	
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<1	<1	<1	
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<1	<1	<1	<1	<1	<1	<1	
Phenols	Isopropyl Phenol	ug/l												
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<10	<10	20	20	<10	<10	<10	
Phenols	Catechol	ug/l												
Phenols	Resorcinol	ug/l					<10	<10	<10	<10	<10	<10	<10	
Phenols	Methylphenols (Total Cresols)	ug/l					<10	<10	<10	<10	<10	<10	<10	
Phenols	Trimethylphenol	ug/l												
Phenols	Naphthols	ug/l												
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10	<10	<10	<10	
Phenols	Total Phenols	ug/l					<0.01	<0.01	20	20	<0.01	<0.01	<0.01	
Phenols	Total Phenols	ug/l					<10	<10	20	20	<10	<10	<10	

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
 ug/l - micrograms per litre
 mg/l - milligrams per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

						Sample Location		WS-P06	WS-P09	WS-P09	WS-P12B	WS-S03	WS-S04	WS-S06
						Sampled Date		25/11/2021	30/11/2021	30/11/2021	11/11/2021	23/08/2021	17/09/2021	06/08/2021
						Top Depth (m)		0.2	0.2	0.5	0.7	1	0.2	0.5
						End Depth (m)								
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	7.49	7.39	7.55	6.92	8.18	6.7	8.95	
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5	
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<5	<5	<5	
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<5	<5	<5	<5	<5	<5	<5	
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	500	<100	<100	<100	<100	<100	<100	
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		0.15	<0.02	0.02	<0.02	<0.02	1.45	<0.02	
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	1.29	1.87	2.08	12.5	80.83	8.42	3.02	
Inorganics	Nitrite	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Inorganics	Nitrite as N	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Inorganics	Nitrate	mg/l					1.8	0.7	0.4	<0.1	19.7	1.2	1.2	
Inorganics	Nitrate as N	mg/l					1.8	0.7	0.4	0.8	<0.1	19.7	1.2	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	<1	6.3	13.05		13.55	8.66	5.92	
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	<1	6.3	13.05	8.21	13.55	8.66	5.92	
Inorganics	Sulphide	mg/l					<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	
Inorganics	Sodium	mg/l		200		WS Regs 2016	2	<1	<1	2	97	3	15	
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	1440	4430	6640		34200	1970	24	
Metals	Aluminium(Available)	ug/l					1440	4430	6640	8300	34200	1970	24	
Metals	Antimony	ug/l		5		WS Regs 2016	<1	1	<1	<1	<1	<1	1	
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	1	1	1	<1	2	1	2	
Metals	Barium	ug/l		1300		WHO DWG 2017	171	10	28	38	64	261	186	
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	<10	<10	<10	18	14	11	<10	
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50	
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<50	<50	<50	<50	<50	<50	<50	
Metals	Chromium	ug/l		50		WS Regs 2016	<1	<1	<1	<1	3	<1	2	
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	10	5	5	5	2	18	9	
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	640	180	286	172	223	654	296	
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	26	14	4	7	<1	33	10	
Metals	Magnesium	ug/l					<1000	<1000	2000	2000	2000	4000	3000	
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	37	4	11	10	98	56	149	
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	3	<1	<1	2	<1	4	3	
Metals	Potassium	ug/l					<1200	<1200	2000	<1200	14000	15000	7000	
Metals	Selenium	ug/l		10		WS Regs 2016	<1	<1	<1	<1	<1	<1	1	
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	2	2	1	<1	<1	<1	2	
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	8	4	3	19	2	13	28	
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	2	
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<20	<20	<20	69	<20	<20	<20	
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<10	<10	<10	69	<10	<10	<10	
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<10	<10	<10	23	<10	<10	<10	
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	13	<10	<10	<10	
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<10	<10	15	21	<10	<10	<10	
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<10	<10	11	14	<10	<10	<10	
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<20	<20	<20	137	<20	<20	<20	
TPHCWG	TPH Aromatic >C5-C35	ug/l					<20	<20	26	202	<20	<20	<20	
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					<20	<20	26		<20	<20	<20	
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		0.09	0.03	0.07	0.1	0.04	<0.02	<0.02	
PAH	Fluorene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	
PAH	Acenaphthylene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
PAH	Acenaphthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	

Project Name: M60/M62/M66 Simister Island
Sample Date: 28/06/2021 - 27/02/2023

							Sample Location	WS-P06	WS-P09	WS-P09	WS-P12B	WS-S03	WS-S04	WS-S06
							Sampled Date	25/11/2021	30/11/2021	30/11/2021	11/11/2021	23/08/2021	17/09/2021	06/08/2021
							Top Depth (m)	0.2	0.2	0.5	0.7	1	0.2	0.5
							End Depth (m)							
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02
PAH	Phenanthrene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	0.02	0.36	0.03
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.12	0.02
PAH	Pyrene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.08	0.02
PAH	Benzo[a]anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Chrysene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[b]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[k]fluoranthene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Dibenz(a,h)Anthracene	ug/l					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PAH	PAH, Total Detected USEPA 16	ug/l					0.09	0.03	0.07	0.1	0.06	0.71	0.07	0.07
PAH	Total PAH 16	ug/l					0.09	0.03	0.07	0.1	0.06	0.71	0.07	0.07
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1	<1	<1	<1	<1
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<1	<1	<1	<1
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<1	<1	<1	<1	<1	<1	<1	2
Phenols	Isopropyl Phenol	ug/l												
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Catechol	ug/l												
Phenols	Resorcinol	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Methylphenols (Total Cresols)	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Trimethylphenol	ug/l												
Phenols	Naphthols	ug/l												
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Total Phenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Total Phenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10

Comments

GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 pH Units - pH Units
 ug/l - micrograms per litre
 mg/l - milligrams per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Key

XXX	Exceedance of Freshwater EQS
XXX	Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 01/02/2022 - 24/03/2023

			Sample Location				BH-G08B	BH-N02A	BH-N03	BH-N04	BH-N07	BH-N08B	BH-N11	BH-N14	BH-N15	BH-N16
			Sampled Date				01/02/2022	01/02/2022	01/02/2022	01/02/2022	03/02/2022	03/02/2022	03/02/2022	02/02/2022	04/02/2022	03/02/2022
			Top Depth (m)				12.5	11.5	6.5	10.5	4	13.5	4.5	13.5	9.3	5.5
			End Depth (m)													
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Inorganics	Dissolved Organic Carbon	mg/l					30.6	70.5	74.6	23.6	93	71	38.5	90.9	9	50.1
Inorganics	Conductivity- Electrical 20deg	us/cm					356	600	1434	1998	713	473	349	1263	283	345
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	6.4	6.39	6.93	7.16	6.75	6.28	6.65	6.71	6.82	6.7
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	100	200	300	1700	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Hardness	mg/l					140	5	54	1	400	246	135	23	116	121
Inorganics	Hardness (Total as CaCO3)	MGCACO3/L					140	243	842	318	400	246	135	361	116	121
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		0.56	0.16	0.02	0.08	4.22	0.22	0.93	0.59	0.02	0.14
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	37	60	85	534	14	17	36	32	22	40
Inorganics	Nitrite as N	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Inorganics	Nitrite as NO2	mg/l	0.01				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Inorganics	Nitrate as N	mg/l					<0.1	<0.1	20	<0.1	<0.1	<0.1	0.1	<0.1	6.5	<0.1
Inorganics	Nitrate as NO3	mg/l					<0.0001	<0.0001	1.9	<0.0001	<0.0001	<0.0001	0.1	<0.0001	6.5	<0.0001
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	34	21	253	80	<0.001	6	9	175	23	12
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					312	551	24	719	0.3	0.3	1.4	2	0.3	0.5
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	0.3	6.84	0.5	24	<1	6	9	43	23	12
Inorganics	Sulphide	mg/l					0.3	1.5	0.2	0.3	0.3	0.3	1.4	0.4	0.3	0.5
Inorganics	Sodium	mg/l		200		WS Regs 2016	20	31	39	312	10	10	18	188	10	29
Inorganics	Calcium	mg/l					44	86	241	103	114	79	50	126	43	41
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	<10	<10	<10	<10	278	18	<10	<10	<10	73
Metals	Aluminium(Available)	ug/l					<10	<10	<10	<10	278	18	<10	<10	<10	73
Metals	Antimony	ug/l		5		WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	14	11	<1	<1	2	2	4	2	<1	9
Metals	Barium	ug/l		1300		WHO DWG 2017	312	463	96	240	299	367	230	488	51	150
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	30	24	80	44	17	24	24	160	26	14
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Metals	Chromium	ug/l		50		WS Regs 2016	<1	<1	<1	2	7	2	1	<1	5	2
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	4	<1	<1	1	<1	<1	1	<1
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	21300	18900	21	3440	4160	37800	26400	31100	<10	19900
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Metals	Magnesium	ug/l					7000	7000	58000	15000	28000	12000	3000	11000	2000	4000
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	1570	1080	19	5810	4900	738	1140	4820	32	1270
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	6	21	2	13	5	10	5	23	<1	4
Metals	Potassium	ug/l					2000	2000	2000	5000	2000	<1.2	<1.2	5000	2000	2000
Metals	Selenium	ug/l		10		WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	<1	<1	<1	<1	5	2	<1	<1	<1	2
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	39	9	3	6	5	18	7	20	5	5
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1	<1	1	<1
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	6	<5	<5
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	6	<5	<5
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	11	<5	<5
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPHCWG	TPH Aromatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	<10	24	<10	<10

Project Name: M60/M62/M66 Simister Island
Sample Date: 01/02/2022 - 24/03/2023

			Sample Location				BH-G08B	BH-N02A	BH-N03	BH-N04	BH-N07	BH-N08B	BH-N11	BH-N14	BH-N15	BH-N16
			Sampled Date				01/02/2022	01/02/2022	01/02/2022	01/02/2022	03/02/2022	03/02/2022	03/02/2022	02/02/2022	04/02/2022	03/02/2022
			Top Depth (m)				12.5	11.5	6.5	10.5	4	13.5	4.5	13.5	9.3	5.5
			End Depth (m)													
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					<10	<10	<10	<10	<10	<10	<10	24	<10	<10
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		<0.01	0.03	<0.01	0.05	0.03	0.02	0.01	0.14	0.02	0.05
PAH	Fluorene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Acenaphthylene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Acenaphthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Phenanthrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[a]anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Chrysene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[b]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[k]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Dibenz(a,h)Anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	PAH, Total Detected USEPA 16	ug/l					<0.01	2	<0.01	3	0.03	0.02	0.02	17	0.02	0.05
PAH	Total PAH 16	ug/l					<0.01	0.03	<0.01	0.05	0.03	0.02	0.02	0.14	0.02	0.05
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1	<1	<1	<1	1	<1	<1
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<1	<1	<1	310	<1	<1
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols	Isopropyl Phenol	ug/l														
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Catechol	ug/l														
Phenols	Resorcinol	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Methylphenols (Total Cresols)	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	20
Phenols	Trimethylphenol	ug/l														
Phenols	Naphthols	ug/l														
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Total Phenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Phenol (Monohydric - Total by HPLC)	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Comments
 GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 mg/l - milligrams per litre
 uS/cm - microsiemens per centimetre
 ug/l - micrograms per litre
 mgCACO3/l - milligrams Calcium Carbonate per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Keys
 XXX Exceedance of Freshwater EQS
 XXX Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 01/02/2022 - 24/03/2023

Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Sample Location	BH-N18	BH-N19	BH-N20	BH-N21	BHNO03A	BH-P03	BH-S05	WS102	WS-N02B	WS-N04	WS-N06	
							Sampled Date	03/02/2022	03/02/2022	04/02/2022	03/02/2022	24/03/2023	02/02/2022	02/02/2022	23/03/2023	01/02/2022	04/02/2022	03/02/2022	
							Top Depth (m)	4	6	2.25	2.24	6.65	1.5	2.2	2.06	2.5	2.5	1.5	
							End Depth (m)								5				
							Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Inorganics	Dissolved Organic Carbon	mg/l					132	44.7	62.4	49.8	9.16	35.4	43.3	15.1	57.8	38.1	45.5		
Inorganics	Conductivity- Electrical 20deg	us/cm					1329	346	948	345		303	719		1783	310	86		
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	7.09	6.94	7.31	6.79	7.4	8.49	7.35	6.2	6.84	6.53	5.98		
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<1	<5	<5	<1	<5	<5	<5		
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<0.005	<0.005	<0.005	<0.005	<1	<0.005	<0.005	<1	<0.005	<0.005	<0.005		
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	<0.1	<0.1	<0.1	<0.1	210	<0.1	<0.1	<200	1200	<0.1	<0.1		
Inorganics	Hardness	mg/l					721	139	123	143	867	0.3	53	184	0.3	139	25		
Inorganics	Hardness (Total as CaCO3)	MGCACO3/L					721	139	123	143		95	424		551	139	25		
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		1.28	0.04	4.49	0.05	<0.015	0.81	0.02	0.063	0.85	0.02	1.67		
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	31	16	17	13	85	4	11	18	412	12	4		
Inorganics	Nitrite as N	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	0.0012	<0.1	<0.1	0.0085	<0.1	<0.1	<0.1		
Inorganics	Nitrite as NO2	mg/l	0.01				<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Inorganics	Nitrate as N	mg/l					<0.1	2.7	<0.1	2	0.8	<0.1	<0.1	1.79	<0.1	1.2	0.3		
Inorganics	Nitrate as NO3	mg/l					<0.0001	2.7	<0.0001	2		<0.0001	<0.0001	<0.0001	<0.0001	1.2	0.3		
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	16	17	22	3		4	99		54	19	5		
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					0.3	0.3	0.7	1.6	<0.005	93	1.4	<0.005	2290	0.3	0.3		
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	16	17	22	3	177	46	6.8	13.4	74	19	5		
Inorganics	Sulphide	mg/l					0.3	0.3	0.7	1.6		0.4	0.2		0.3	0.3	0.3		
Inorganics	Sodium	mg/l		200		WS Regs 2016	67	23	214	24	46	36	25	7	176	8	4		
Inorganics	Calcium	mg/l					205	50	33	55	250	35	156	62	165	46	8		
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	<10	80	14	342		640	<10	<10	118	158			
Metals	Aluminium(Available)	ug/l					<10	80	14	342	3.1	6	<10	46.1	<10	118	158		
Metals	Antimony	ug/l		5		WS Regs 2016	<1	1	<1	1	<0.4	4	<1	1.4	<1	<1	<1		
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	4	<1	<1	2	0.562	4	<1	0.77	3	<1	2		
Metals	Barium	ug/l		1300		WHO DWG 2017	494	72	135	50	69	83	63	25	213	118	63		
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	47	23	20	15	60	29	37	19	35	23	31		
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	<0.2	<0.2	<0.2	<0.2	0.05	<0.2	<0.2	0.04	<0.2	<0.2	<0.2		
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<5	<0.01	<0.01	<5	<0.01	<0.01	<0.01		
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	10	<0.01	10	<5	10	10	<5	<0.01	<0.01	<0.01		
Metals	Chromium	ug/l		50		WS Regs 2016	2	12	2	10	0.3	10	10	0.6	2	8	5		
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	1	10	2	6	5.2	18	2	6.6	1	5	<1		
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	11100	292	812	717	7	677	29	84	23400	136	20800		
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<0.2	<1	<1	<0.2	<1	<1	<1		
Metals	Magnesium	ug/l					50000	3000	10000	1000	61000	2000	8000	6800	34000	6000	<1		
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	3550	91	1250	209	63	451	7	35	9850	93	178		
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1		
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	25	2	8	2	1.4	4	3	0.8	8	6	11		
Metals	Potassium	ug/l					5000	3000	3000	<1.2	3000	13000	2000	1200	6000	3000	1000		
Metals	Selenium	ug/l		10		WS Regs 2016	<1	4	<1	<1	0.9	<1	<1	0.9	<1	<1	<1		
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	<1	1	2	16	<0.2	5	<1	1.3	<1	<1	7		
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	69	29	10	5	16	6	5	4	6	15	13		
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<1	<5	<5	<1	<5	<5	<5		
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5		
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5		
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5		
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5		
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5		
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<1	13	<5	<1	<5	<5	<5		
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5		
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5		
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<5		
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
TPHCWG	TPH Aromatic >C5-C35	ug/l					<10	<10	<10	<10	<10	13	<10	<10	<10	<10	<10		

Project Name: M60/M62/M66 Simister Island
Sample Date: 01/02/2022 - 24/03/2023

			Sample Location				BH-N18	BH-N19	BH-N20	BH-N21	BHNO03A	BH-P03	BH-S05	WS102	WS-N02B	WS-N04	WS-N06
			Sampled Date				03/02/2022	03/02/2022	04/02/2022	03/02/2022	24/03/2023	02/02/2022	02/02/2022	23/03/2023	01/02/2022	04/02/2022	03/02/2022
			Top Depth (m)				4	6	2.25	2.24	6.65	1.5	2.2	2.06	2.5	2.5	1.5
			End Depth (m)											5			
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					<10	<10	<10	<10		13	<10		<10	<10	<10
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		0.02	<0.01	0.06	<0.01	<0.01	0.05	<0.01	<0.01	0.15	0.08	<0.01
PAH	Fluorene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
PAH	Acenaphthylene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Acenaphthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Phenanthrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[a]anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Chrysene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[b]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[k]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Dibenz(a,h)Anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	PAH, Total Detected USEPA 16	ug/l					0.02	<0.01	0.06	<0.01	<0.16	593	<0.01	<0.16	80	0.08	<0.01
PAH	Total PAH 16	ug/l					0.02	<0.01	0.06	<0.01		0.05	<0.01		0.22	0.08	<0.01
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<3	<1	<1	<3	<1	<1	<1
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<3	<1	<1	<3	<1	<1	<1
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<3	<1	<1	<3	<1	<1	<1
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1		2	<1	<1	<1	<1	<1
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<3	6.82	<1	<3	<1	<1	<1
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<3	2	<1	<3	<1	<1	<1
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<1	<1	<1	<1	<3	<1	<1	<3	<1	<1	<1
Phenols	Isopropyl Phenol	ug/l									<0.5			<0.5			
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<0.01	<0.01	<0.01	<0.01	<0.5	40	<0.01	<0.5	<0.01	<0.01	<0.01
Phenols	Catechol	ug/l									<0.5			<0.5			
Phenols	Resorcinol	ug/l					<0.01	<0.01	<0.01	<0.01	<0.5	<0.01	<0.01	<0.5	<0.01	<0.01	<0.01
Phenols	Methylphenols (Total Cresols)	ug/l					<0.01	<0.01	<0.01	<0.01	<0.5	20	<0.01	<0.5	<0.01	<0.01	<0.01
Phenols	Trimethylphenol	ug/l									<0.5			<0.5			
Phenols	Naphthols	ug/l									<0.5			<0.5			
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10		<10	<10		<10	<10	<10
Phenols	Total Phenols	ug/l					<10	<10	<10	<10	<3.5	<10	<10	<3.5	<10	<10	<10
Phenols	Phenol (Monohydric - Total by HPLC)	ug/l					<0.01	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	<0.01

Comments
GAC - Generic Assessment Criteria
(blank) - no assessment criteria available
mg/l - milligrams per litre
uS/cm - microsiemens per centimetre
ug/l - micrograms per litre
mgCACO3/l - milligrams Calcium Carbonate per litre
TPH - Total Petroleum Hydrocarbons
TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
PAH - Polycyclic Aromatic Hydrocarbons
VOC - Volatile Organic Compounds
DWS - Drinking Water Standards
EQS - Environmental Quality Standards
AA - Annual Average
MAC - Maximum Allowable Concentration
WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
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Keys
XXX Exceedance of Freshwater EQS
XXX Exceedance of Drinking Water Standards

Project Name: M60/M62/M66 Simister Island
Sample Date: 01/02/2022 - 24/03/2023

Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Sample Location	WS-N07	WS-N09	WS-N12C	WS-N13	WS-P01	WS-P04	WS-P06	WS-P12B	WS-S04	WS-S05	
							Sampled Date	04/02/2022	03/02/2022	03/02/2022	01/02/2022	04/02/2022	01/02/2022	02/02/2022	01/02/2022	02/02/2022	02/02/2022	02/02/2022
							Top Depth (m)	3.5	0.9	2.5	2	1.5	4.5	3.6	3	2.25	4.5	
							End Depth (m)											
							Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Inorganics	Dissolved Organic Carbon	mg/l					12.7	68	50.3	69.1	31.1	29.1	37.4	76.6	70.3	49.7		
Inorganics	Conductivity- Electrical 20deg	us/cm					512	455	486	559	505	306	396	771	704	547		
Inorganics	pH	pH UNITS	6 - 9	6.5 - 9.5	WFD (Fresh EQS - AA)	WS Regs 2016	6.37	6.92	7.22	6.76	7.07	6.6	6.98	6.65	6.89	6.98		
Inorganics	Cyanide (Total)	ug/l	1	50	WFD (Fresh EQS - AA)	WS Regs 2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Inorganics	Cyanide, total	ug/l	1		SEPA (Fresh EQS - AA)		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
Inorganics	Cyanide (Free)	ug/l	1	50	SEPA (Fresh EQS - AA)	WS Regs 2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Inorganics	Thiocyanate	ug/l		4		USEPA RSL (tapwater)	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Inorganics	Hardness	mg/l					99	236	200	1	269	11	192	486	372	250		
Inorganics	Hardness (Total as CaCO3)	MGCACO3/L					99	236	200	306	269	128	192	361	372	250		
Inorganics	Ammoniacal Nitrogen as N	mg/l	0.3		WFD (Fresh EQS - AA)		<2e-005	0.31	0.08	1.86	0.6	0.95	0.31	5.57	0.54	0.04		
Inorganics	Chloride	mg/l	250	250	SEPA (Fresh EQS - AA)	WS Regs 2016	117	9	9	20	9	15	28	20	34	11		
Inorganics	Nitrite as N	mg/l	0.01				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Inorganics	Nitrite as NO2	mg/l	0.01				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Inorganics	Nitrate as N	mg/l					8.3	<0.1	0.1	<0.1	0.4	<0.1	<0.1	9	0.5	<0.1		
Inorganics	Nitrate as NO3	mg/l					8.3	<0.0001	0.1	<0.0001	0.4	<0.0001	<0.0001	0.5	0.5	<0.0001		
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	23	12	23	4	9	58	3	6	12	39		
Inorganics	Sulphide (Oxidisable) as SO4	mg/l					0.3	0.3	0.4	0.02	0.4	0.31	0.3	19	0.2	0.3		
Inorganics	Sulphate	mg/l	400	250	SEPA (Fresh EQS - AA)	WS Regs 2016	23	12	23	10	9	6.92	3	0.1	12	39		
Inorganics	Sulphide	mg/l					0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.2	0.3		
Inorganics	Sodium	mg/l		200		WS Regs 2016	61	16	31	12	20	11	13	31	20	29		
Inorganics	Calcium	mg/l					37	90	70	105	96	34	65	130	125	74		
Metals	Aluminum	ug/l	15	200	SEPA (Fresh EQS - AA)	WS Regs 2016	247	227	<10	51	23	<10	31	24	<10	<10		
Metals	Aluminium(Available)	ug/l					247	227	<10	6.75	23	<10	31	70	<10	<10		
Metals	Antimony	ug/l		5		WS Regs 2016	2	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Metals	Arsenic	ug/l	50	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	1	<1	6	2	17	2	1	6	1		
Metals	Barium	ug/l		1300		WHO DWG 2017	85	104	116	186	317	687	160	360	265	149		
Metals	Boron	ug/l	2000	1000	SEPA (Fresh EQS - AA)	WS Regs 2016	23	20	19	19	24	16	12	<10	23	33		
Metals	Cadmium	ug/l	0.08	5	WFD (Fresh EQS - AA)	WS Regs 2016	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Metals	Chromium, Hexavalent (Cr6+)	ug/l	3.4	50	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Metals	Chromium, Trivalent (Cr3+)	ug/l	4.7	50	WFD (Fresh EQS - AA)	WS Regs 2016	30	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Metals	Chromium	ug/l		50		WS Regs 2016	28	9	<1	2	<1	<1	5	1	<1	1		
Metals	Copper	ug/l	1	2000	WFD (Fresh EQS - AA)	WS Regs 2016	9	2	2	<1	2	<1	4	<1	1	2		
Metals	Iron	ug/l	1000	200	WFD (Fresh EQS - AA)	WS Regs 2016	37	3980	40	14300	13000	19100	2390	8110	20000	1820		
Metals	Lead	ug/l	1.2	10	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Metals	Magnesium	ug/l					1000	3000	6000	11000	7000	10000	7000	8000	14000	16000		
Metals	Manganese	ug/l	123	50	WFD (Fresh EQS - AA)	WS Regs 2016	28	979	1110	1060	2320	1380	235	2450	868	2290		
Metals	Mercury	ug/l	0.07	1	WFD (Fresh EQS - MAC)	WS Regs 2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Metals	Nickel	ug/l	4	20	WFD (Fresh EQS - AA)	WS Regs 2016	3	5	1	5	6	12	3	12	5	5		
Metals	Potassium	ug/l					<1.2	<1.2	2000	2000	2000	1000	2000	2000	7000	<1.2		
Metals	Selenium	ug/l		10		WS Regs 2016	1	<1	2	<1	<1	<1	<1	<1	<1	<1		
Metals	Vanadium	ug/l	20	86	SEPA (Fresh EQS - AA)	USEPA RSL (tapwater)	15	6	<1	1	<1	<1	<1	<1	<1	<1		
Metals	Zinc	ug/l	10.9	6000	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	16	4	8	7	4	8	7	7	7	8		
TPHCWG	TPH Aliphatic >C5-C6	ug/l		15000		WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
TPHCWG	TPH Aliphatic >C6-C8	ug/l					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
TPHCWG	TPH Aliphatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aliphatic >C10-C12	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aliphatic >C12-C16	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aliphatic >C16-C21	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aliphatic >C21-C35	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aliphatic >C5-C35	ug/l					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aromatic >C5-C7	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
TPHCWG	TPH Aromatic >C7-C8	ug/l	74	700	WFD (Fresh EQS - AA)	WHO Petroleum DWG 2008	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
TPHCWG	TPH Aromatic >C8-C10	ug/l		300		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aromatic >C10-C12	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aromatic >C12-C16	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aromatic >C16-C21	ug/l		90		WHO Petroleum DWG 2008	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		
TPHCWG	TPH Aromatic >C21-C35	ug/l		90		WHO Petroleum DWG 2008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		
TPHCWG	TPH Aromatic >C5-C35	ug/l					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10		

Project Name: M60/M62/M66 Simister Island
Sample Date: 01/02/2022 - 24/03/2023

			Sample Location			WS-N07	WS-N09	WS-N12C	WS-N13	WS-P01	WS-P04	WS-P06	WS-P12B	WS-S04	WS-S05
			Sampled Date			04/02/2022	03/02/2022	03/02/2022	01/02/2022	04/02/2022	01/02/2022	02/02/2022	01/02/2022	02/02/2022	02/02/2022
			Top Depth (m)			3.5	0.9	2.5	2	1.5	4.5	3.6	3	2.25	4.5
			End Depth (m)												
Analyte Group	Analyte	Unit	Freshwater EQS	Drinking Water Standards	Freshwater EQS Source	DWS Source	Result	Result	Result	Result	Result	Result	Result	Result	Result
TPHCWG	TPH Aliphatic & Aromatic >C5-35	ug/l					<10	<10	<10	<10	<10	<10	<10	<10	<10
PAH	Naphthalene	ug/l	2		WFD (Fresh EQS - AA)		0.01	0.01	<0.01	0.03	0.02	<0.01	<0.01	0.08	<0.01
PAH	Fluorene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Acenaphthylene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Acenaphthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Anthracene	ug/l	0.1		WFD (Fresh EQS - AA)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Phenanthrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Fluoranthene	ug/l	0.0063	4	WFD (Fresh EQS - AA)	WHO DWG 2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[a]anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Chrysene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[b]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[k]fluoranthene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[a]pyrene	ug/l	0.00017	0.01	WFD (Fresh EQS - AA)	WS Regs 2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Indeno(1,2,3-c,d)Pyrene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Dibenz(a,h)Anthracene	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	Benzo[g,h,i]perylene	ug/l	0.0082		WFD (Fresh EQS - MAC)		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH	PAH, Total Detected USEPA 16	ug/l					0.01	0.01	<0.01	150	0.02	<0.01	<0.01	48	<0.01
PAH	Total PAH 16	ug/l					0.01	0.01	<0.01	0.03	0.02	<0.01	<0.01	0.08	<0.01
VOC	Benzene	ug/l	10	1	WFD (Fresh EQS - AA)	WS Regs 2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Toluene	ug/l	74	700	WFD (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Ethylbenzene	ug/l	20	300	SEPA (Fresh EQS - AA)	WHO DWG 2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	m & p-Xylene	ug/l					<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Xylenes, m & p	ug/l					<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	o-Xylene	ug/l		190		USEPA RSL (tapwater)	<1	<1	<1	<1	<1	<1	<1	<1	<1
VOC	Methyl Tert-Butyl Ether	ug/l	5100		PNEC (Freshwater)		<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols	Isopropyl Phenol	ug/l													
Phenols	Phenol	ug/l	7.7	5800	WFD (Fresh EQS - AA)	USEPA RSL (tapwater)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Catechol	ug/l													
Phenols	Resorcinol	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Methylphenols (Total Cresols)	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Trimethylphenol	ug/l													
Phenols	Naphthols	ug/l													
Phenols	Xylenols	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenols	Xylenols & Ethylphenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Total Phenols	ug/l					<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenols	Phenol (Monohydric - Total by HPLC)	ug/l					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Comments
 GAC - Generic Assessment Criteria
 (blank) - no assessment criteria available
 mg/l - milligrams per litre
 uS/cm - microsiemens per centimetre
 ug/l - micrograms per litre
 mgCACO3/l - milligrams Calcium Carbonate per litre
 TPH - Total Petroleum Hydrocarbons
 TPHCWG - Total Petroleum Hydrocarbon Criteria Working Group
 PAH - Polycyclic Aromatic Hydrocarbons
 VOC - Volatile Organic Compounds
 DWS - Drinking Water Standards
 EQS - Environmental Quality Standards
 AA - Annual Average
 MAC - Maximum Allowable Concentration
 WFD (Fresh EQS - AA) - Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015
 SEPA (Fresh EQS - AA) - Scottish Environmental Protection Agency WAT-SG-53 2015
 PNEC (Freshwater) - Predicted No-Effect Concentrations (EU REACH) - Freshwater
 USEPA RSL (tapwater) - United States Environmental Protection Agency, Regional Screening Levels (Tapwater), November 2022
 WHO DWG 2017 - World Health Organisation, Definitions Working Group 2017
 WHO Petroleum DWG 2008 - WHO Petroleum Definitions Working Group 2008
 WS Regs 2016 - Water Supply (Water Quality Regulations) 2016

Keys
XXX Exceedance of Freshwater EQS
XXX Exceedance of Drinking Water Standards

Annex I. Ground gas monitoring results

Location	Point of reference	Date (DD/MM/YYYY)	Time (00:00:00)	Water Depth (mbgl)	Top of slotted pipe (mbgl)	Well Depth (mbgl)	Standpipe Diameter (mm)	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas Flow Rate (l/hr)		Oxygen (% v/v)		Carbon Dioxide (% v/v)		Methane (% v/v)		Methane (% LEL)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		VOC Headspace (ppm)	Technician comments
										Peak min (-) or max (+)	Steady	Low	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady		
BH-N07	1	12/01/2022	00:00:00	8.06	16	18	19	2056	0.0	0.1	0.0	24.3	24.7	9.9	7.9	3.8	3.7	76.0	74.0	0.0	0.0	1.0	0.0	0.0	
BH-N08B	1	12/01/2022	00:00:00	11.66	11	14	50	1028	-12.0	-5.6	-5.6	21.1	21.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-G06	2	14/01/2022	00:00:00	9.36	14	18	50	1026	0.0	0.0	0.0	18.9	20.7	0.2	0.2	0.1	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0	
BH-G08B	1	01/02/2022	13:55:00	7.15	12.5	16.5	50	1006	0.1	0.0	0.0	17.6	19.5	3.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N14	1	12/01/2022	00:00:00	12.9	11.5	14.5	50	1028	-3.0	-1.7	-1.7	21.7	21.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
BH-N17	1	12/01/2022	00:00:00	Dry		1	8.5	50	1028	-22.0	-8.9	-8.9	21.1	21.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-G08B	1	28/02/2022	10:05:00	7.04	12.5	16.5	50	1007	0.0	0.0	0.0	18.1	20.5	3.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-G08B	1	06/04/2022	11:40:00	6.92	12.5	16.5	50	982	0.0	0.0	0.0	20.9	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
BH-G08B	1	02/05/2023	15:20:00	7.35	12.5	16.5	50	1017	0.0	0.0	0.0	20.5	20.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	NR	
BH-S05	2	12/01/2022	00:00:00	3.64	3	5	50	1028	0.0	0.0	0.1	15.6	15.6	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N02A	2	14/01/2022	00:00:00	11.53	17	18	50	1026	0.0	0.1	0.1	14.8	17.6	0.8	0.1	1.0	0.1	20.0	2.0	0.0	0.0	0.0	0.0	0.0	
BH-N02A	2	02/02/2022	14:40:00	5.79	17	18	50	1009	0.0	0.0	0.0	18.9	20.5	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N02A	2	02/02/2022	14:50:00	5.79	17	18	50	1009	-0.3	0.0	0.0	18.9	20.1	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N12C	1	12/01/2022	00:00:00	2.1	1.5	3	50	1028	0.0	0.0	0.1	19.3	21.0	1.7	0.2	0.1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N02A	2	28/02/2022	10:20:00	11.31	17	18	50	1008	0.0	0.0	-0.1	18.3	18.3	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N02A	2	06/04/2022	11:10:00	5.46	17	18	50	982	0.0	0.0	0.0	20.7	21.0	0.2	0.1	0.1	0.0	2.0	0.0	0.0	0.0	2.0	1.0	0.0	
BH-N02A	1	02/05/2023	14:45:00	6.14	11	13	19	1017	0.1	0.1	0.1	18.3	18.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	NR	
BH-N02A	2	02/05/2023	14:30:00	5.51	17	18	50	1017	0.1	0.1	0.1	18.8	19.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	
BH-N04	2	02/02/2022	15:40:00	8.73	10	13	50	NR	0.0	0.0	0.0	20.8	21.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-G06	2	14/04/2022	14:29:00	Dry	14	18	50	1011	0.1	-0.2	-0.1	16.9	19.3	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	
BH-N04	1	28/02/2022	09:30:00	19.16	19.5	23	19	1007	-0.1	0.1	0.1	20.6	20.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-P02	1	14/01/2022	00:00:00	4.7	4.2	4.7	50	1026	-9.0	-4.5	-4.5	21.3	21.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	
BH-P03	1	14/01/2022	00:00:00	1.06	1	2.5	50	1026	1.0	1.6	0.6	7.3	14.6	0.9	0.3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	
WS-G08A	1	14/01/2022	00:00:00	6.16	6	8	19	1026	-2.0	-1.1	-1.1	1.4	1.4	7.8	7.8	18.9	18.9	NR	NR	0.0	0.0	3.0	3.0	0.0	
BH-N04	2	06/04/2022	14:00:00	8.5	10	13	50	968	0.0	0.0	0.0	18.3	18.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
WS-P05	1	14/01/2022	00:00:00	3.01	2.5	4	50	1026	5.0	3.3	2.7	16.1	17.3	0.7	0.7	0.1	0.1	2.0	2.0	0.0	0.0	1.0	0.0	0.0	
BH-N04A	2	14/01/2022	00:00:00	9.34	15	18	50	1026	0.0	0.0	0.0	17.7	18.0	0.1	0.0	0.1	0.1	2.0	2.0	0.0	0.0	1.0	1.0	0.0	
BH-N15	1	17/01/2022	00:00:00	8.66	6	9.8	50	1026	0.0	0.2	0.2	20.1	21.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N07	2	02/02/2022	11:10:00	2.77	3.5	6	50	1009	0.3	0.3	0.0	20.8	21.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N15	1	03/02/2022	13:10:00	8.59	6	9.8	50	997	0.0	0.0	0.1	18.5	18.5	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N07	1	17/01/2022	00:00:00	2.77	2	4	50	1026	0.0	0.1	0.1	16.1	19.9	32.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N07	2	01/03/2022	09:40:00	2.74	3.5	6	50	1017	0.6	0.0	0.0	19.9	21.0	3.9	0.6	0.1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-P04	1	01/02/2022	14:10:00	3.45	3	6	50	1006	0.1	0.1	0.1	18.7	20.2	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N07	2	07/04/2022	13:00:00	2.62	3.5	6	50	974	-1.1	0.1	0.0	18.5	19.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N07	2	04/05/2023	14:20:00	2.79	3.5	6	50	1006	0.1	0.0	0.0	20.3	20.3	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N15	1	28/02/2022	13:15:00	8.53	6	9.8	50	1006	0.1	-0.1	-0.1	18.6	18.8	3.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-P02	1	01/02/2022	16:50:00	Dry	4.2	4.7	50	1007	5.8	2.5	2.5	11.6	11.6	0.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N07	1	04/05/2023	14:30:00	3.99	16	18	19	1006	2.5	0.0	0.0	0.7	0.7	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N10	1	12/01/2022	00:00:00	3.04	15	18	19	1028	0.0	0.1	0.1	20.7	21.0	0.2	0.2	0.2	0.2	4.0	4.0	0.0	0.0	2.0	0.0	0.0	
BH-N10	1	03/05/2023	14:31:00	2.95	15	18	19	1015	0.8	0.0	0.0	17.8	17.8	2.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	NR	possible blockage/offset pipe at 0.11m
BH-G06	2	03/05/2023	12:52:00	Dry	14	18	50	1015	0.2	0.0	0.1	19.4	19.4	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	NR	
BH-N11	1	12/01/2022	00:00:00	6.14	18	22	19	1028	0.0	0.3	0.3	20.1	21.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N11	2	03/02/2022	10:25:00	2.89	4	5	50	1000	1.5	0.8	0.8	20.2	20.2	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N14	1	02/02/2022	11:00:00	13.23	11.5	14.5	50	1009	-0.7	-0.1	-0.1	20.7	21.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	
BH-N08B	1	03/02/2022	09:10:00	11.57	11	14	50	999	6.9	2.9	2.9	4.5	4.5	12.5	12.4	3.4	3.3	68.0	66.0	0.0	0.0	1.0	1.0	0.0	
BH-S05	2	02/02/2022	09:00:00	3.77	3	5	50	1009	-0.1	0.0	0.1	16.5	16.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N06	1	02/02/2022	12:40:00	1.32	0.9	5	50	1010	0.3	0.1	0.1	16.3	16.3	4.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N11	2	01/03/2022	11:20:00	2.85	4	5	50	1018	0.4	0.8	0.6	19.8	NR	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N12C	1	02/02/2022	11:10:00	1.89	1.5	3	50	1009	-0.1	0.1	0.1	20.6	21.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N11	2	07/04/2022	09:56:00	2.66	4	5	50	970	-1.0	0.0	0.0	19.8	19.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N15	1	08/04/2022	09:00:00	8.49	6	9.8	50	989	0.0	0.0	0.1	17.4	17.4	1.6	1.6	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	
BH-N08B	1	04/05/2023	14:12:00	11.54	11	14	50	1005	3.6	0.0	0.1	0.3	0.3	26.6	26.6	5.3	5.3	10.6	10.6	0.0	0.0	1.0	1.0	NR	
BH-N11	2	03/05/2023	14:12:00	3.05	4	5	50	1015	0.1	0.1	0.1	19.2	19.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	NR	
BH-N16	1	03/02/2022	10:55:00	4.11	5	6.5	50	1000	0.0	0.1															

Location	Point of reference	Date (DD/MM/YYYY)	Time (00:00:00)	Water Depth (mbgl)	Top of slotted pipe (mbgl)	Well Depth (mbgl)	Standpipe Diameter (mm)	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas Flow Rate (l/hr)		Oxygen (% v/v)		Carbon Dioxide (% v/v)		Methane (% v/v)		Methane (% LEL)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		VOC Headspace (ppm)	Technician comments
										Peak min (-) or max (+)	Steady	Low	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady		
BH-N21	1	12/01/2022	00:00:00	4.64	20	23	19	1028	0.0	0.1	0.1	19.4	19.4	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
WS-N12C	1	01/03/2022	09:35:00	1.83	1.5	3	50	1017	0.0	0.0	0.1	21.4	21.4	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N21	2	03/02/2022	10:15:00	0.95	1	2.4	50	999	-0.1	0.0	0.0	20.1	20.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 pump failure after 240 seconds
BH-N17	1	02/02/2022	10:45:00	Dry	1	8.5	50	1009	-0.7	-0.2	-0.2	0.0	0.0	16.1	16.1	15.9	15.7	318.0	314.0	0.0	0.0	0.0	0.0	0.0	
BH-N14	1	01/03/2022	09:50:00	13.02	11.5	14.5	50	1017	-1.7	-0.6	-0.6	20.9	20.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	
BH-N08B	1	01/03/2022	10:00:00	11.53	11	14	50	1017	-5.0	-2.1	-2.1	20.9	21.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N21	2	01/03/2022	11:05:00	0.89	1	2.4	50	1018	0.0	0.1	0.1	20.4	20.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 ater sucked into pump tubing at 120 seconds. Stopped monitoring
BH-N17	1	01/03/2022	09:55:00	Dry	1	8.5	50	1017	-8.2	-5.6	-5.5	5.2	5.2	11.5	11.5	15.6	15.6	312.0	312.0	0.0	0.0	0.0	0.0	0.0	0.0 pump failure after 255 seconds
BH-N21	2	07/04/2022	09:33:00	0.95	1	2.4	50	970	-2.8	0.0	0.0	19.9	19.9	1.4	1.4	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	
BH-N21	1	03/05/2023	14:06:00	1.34	20	23	19	1015	0.2	0.1	0.1	17.5	17.5	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 NR
BHNO03A	1	24/03/2023	10:28:00	6.66	8.2	9.2	50	991	0.1	0.1	0.1	18.6	18.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 NR pump failure after 150 seconds
BH-P03	1	01/02/2022	16:50:00	0.38	1	2.5	50	1007	2.8	0.7	0.7	10.5	20.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 pump failure at 190 seconds
BH-P03	1	28/02/2022	11:25:00	0.95	1	2.5	50	1007	0.0	0.0	0.0	20.5	20.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-P03	1	08/04/2022	12:00:00	0.43	1	2.5	50	990	6.8	4.5	0.5	18.1	18.1	0.6	0.4	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	
WS-P04	1	06/04/2022	12:06:00	3.31	3	6	50	982	0.0	0.0	0.1	18.8	20.8	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
WS-P03A	1	06/04/2022	12:23:00	2.99	2.5	3.5	50	982	7.5	9.3	0.2	15.5	16.2	4.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
BH-N03	1	02/02/2022	15:30:00	5.48	1	7	50	1009	0.0	0.2	0.2	15.3	19.2	3.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N04	1	12/01/2022	00:00:00	0.68	2	5	50	1028	0.0	0.1	0.1	21.3	21.3	2.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N04	1	04/05/2023	10:47:00	0.97	2	5	50	1008	-3.4	0.0	0.0	19.7	19.7	1.3	1.3	0.1	0.1	2.0	2.0	0.0	0.0	1.0	1.0	NR	
BH-S05	2	06/04/2022	15:41:00	3.77	3	5	50	977	0.1	0.1	0.1	8.5	8.6	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
WS-N04A	1	12/01/2022	00:00:00	1.02	4	6	19	1028	-2.0	-7.6	-0.5	20.8	20.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
WS-N07	1	28/02/2022	13:15:00	1.91	2	4	50	1008	0.0	-0.1	-0.1	17.6	19.9	2.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N09	1	12/01/2022	00:00:00	0.3	1	3	50	1028	0.0	0.0	0.0	19.2	20.7	2.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
WS-N09	1	02/02/2022	12:50:00	0.45	1	3	50	1010	0.0	0.0	0.0	20.7	20.9	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N06	1	07/04/2022	11:19:00	1.2	0.9	5	50	972	-8.8	0.1	0.1	14.2	14.2	4.8	4.8	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	
WS-N09	1	01/03/2022	10:30:00	0.3	1	3	50	1019	-0.4	-0.1	-0.1	19.7	19.8	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N09	1	07/04/2022	11:38:00	0.18	1	3	50	972	-3.6	1.8	0.3	16.6	20.8	3.4	0.2	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	
WS-N12C	1	07/04/2022	13:23:00	1.72	1.5	3	50	974	-0.4	0.0	0.1	17.3	17.3	1.9	1.9	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	
BH-N14	1	07/04/2022	13:42:00	13.31	11.5	14.5	50	974	-0.7	-0.2	-0.2	19.1	21.2	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N17	1	07/04/2022	14:06:00	Dry	1	8.5	50	974	11.7	5.7	5.7	0.1	0.1	11.7	11.7	12.2	11.9	244.0	345.1	0.0	0.0	0.0	0.0	0.0	
BH-N08B	1	07/04/2022	14:24:00	11.56	11	14	50	978	-0.3	0.0	0.1	16.5	21.2	1.0	1.0	0.8	0.0	16.0	0.0	0.0	0.0	1.0	1.0	0.0	
WS-P03A	1	02/05/2023	15:44:00	Damp	2.5	3.5	50	1017	0.2	0.1	0.1	4.4	4.4	5.6	5.6	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	NR	
WS-N07	1	08/04/2022	09:40:00	2.52	2	4	50	989	0.1	0.0	0.1	20.4	19.6	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-P09	1	14/01/2022	00:00:00	4.44	3.6	4.7	50	1026	-9.0	0.0	0.1	20.8	20.8	0.1	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	
WS-N13	1	14/01/2022	00:00:00	0.26	1.5	2.8	50	1026	0.0	0.2	0.2	18.3	18.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
BH-P02	1	08/04/2022	12:15:00	Dry	4.2	4.7	50	990	0.2	0.1	0.1	13.0	13.0	3.2	3.2	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	
WS-N13	1	02/02/2022	15:40:00	0.43	1.5	2.8	50	1009	0.5	5.0	0.2	20.9	21.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BH-N03	1	28/02/2022	09:35:00	5.77	1	7	50	1007	0.1	-0.1	-0.1	18.8	20.8	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N13	1	28/02/2022	09:25:00	0.1	1.5	2.8	50	1007	0.1	0.0	0.0	20.6	20.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS2	1	23/03/2023	12:50:00	2.06	2	5	50	991	0.5	0.1	0.1	2.0	2.1	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	NR	
WS2	1	10/02/2023	11:55:00	3.05	2	5	50	1022	-0.2	0.1	0.1	1.4	1.4	11.8	11.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	NR	
WS2	1	24/02/2023	13:04:00	3.11	2	5	50	1006	-0.2	0.1	0.1	1.9	1.9	11.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	NR	
WS-N13	1	06/04/2022	13:53:00	1.06	1.5	2.8	50	979	0.0	0.0	0.0	12.0	15.6	3.5	2.1	0.1	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0	
WS-P09	1	01/02/2022	16:30:00	4.68	3.6	4.7	50	1007	6.2	2.6	2.4	14.8	14.8	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
WS-N13	1	02/05/2023	16:11:00	0.75	1.5	2.8	50	1017	0.0	0.0	0.0	5.6	5.6	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	
WS-P01	1	12/01/2022	00:00:00	0.48	1.2	2	50	1028	0.0	0.1	0.1	20.1	20.8	1.5	0.2	0.0	0.3	40.0	6.0	0.0	0.0	1.0	0.0	0.0	
WS-P04	1	02/05/2023	15:37:00	2.87	3	6	50	1017	1.3	0.2	0.2	12.9	12.9	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	NR	
BH-N03	1	06/04/2022	13:33:00	5.75	1	7	50	979	0.0	0.0	0.1	17.3	19.4	2.5	0.4	0.1	0.0	2.0	0.0	1.0	1.0	2.0	0.0	0.0	
BH-N03	1	02/05/2023	16:04:00	6.24	1	7	50	1017	0.3	0.0	0.1	19.7	19.8	0.4	0.4	0.2	0.2	4.0	4.0	1.0	1.0	1.0	1.0	NR	
BH-N04A	1	02/05/2023	16:38:00	Dry	22	22.5	19	1017	0.2	0.0	0.0	3.8	3.8	4.2	4.2	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	NR	
WS-P06	1	14/01/2022	00:00:00	0.65	1.7	2.9	50	1026	0.0	0.0	0.0	18.9	20.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
WS-N06	1	04/05/2023	11:09:00	0.95	0.9	5	50	1008	-0.2	0.0	0.1	20.4	20.4	0.2	0.2	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	NR	
BH-N14	1	04/05/2023	13:42:00	Damp	11.5	14.5	50	1005	2.4	0.0	0.1	0.3	0.3	33.8	33.8	0.5	0.4	10.0	8.0	0.0	0.0	1.0	1.0	NR	
BH-P02	1	03/05/2023	11:05:00	Dry	4.2	4.7	50	101																	

Location	Point of reference	Date (DD/MM/YYYY)	Time (00:00:00)	Water Depth (mbgl)	Top of slotted pipe (mbgl)	Well Depth (mbgl)	Standpipe Diameter (mm)	Atmospheric Pressure (mb)	Differential Pressure (mb)	Gas Flow Rate (l/hr)		Oxygen (% v/v)		Carbon Dioxide (% v/v)		Methane (% v/v)		Methane (% LEL)		Hydrogen Sulphide (ppm)		Carbon Monoxide (ppm)		VOC Headspace (ppm)	Technician comments
										Peak min (-) or max (+)	Steady	Low	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	Steady	
WS-P09	1	03/05/2023	10:52:00	Damp	3.6	4.7	50	1017	-2.8	-2.8	-2.8	20.7	20.7	0.1	0.1	0.1	0.1	2.0	2.0	0.0	0.0	7.0	7.0	NR	
WS-S04	1	14/04/2022	14:09:00	2.98	3.5	4	50	1011	0.0	0.1	0.0	6.9	6.9	4.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
WS-S04	1	03/05/2023	12:45:00	2.74	3.5	4	50	1015	-0.1	0.1	0.1	5.0	5.0	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	
WS-S05	1	12/01/2022	00:00:00	0.44	2	3.5	50	1028	0.0	-2.9	0.0	14.4	14.4	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0	0.0
WS-S05	1	28/02/2022	11:45:00	0.81	2	3.5	50	1007	0.1	0.0	0.0	20.8	21.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Comments

- mbgl - meter below ground level
- mm - millimeter
- mb - millibar
- l/hr - litres per hour
- %v/v - percentage volume by volume
- % LEL - percentage lower explosive limit
- ppm - parts per million
- VOC - Volatile organic compounds
- NR - Not recorded

Where "0.0" is recorded, this should be taken as recorded less than detection limit (<0.1 for ground gases or <1 for trace gases)

Annex J. Preliminary hazardous waste classification assessment

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

- 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)



KLMQC-4FDNB-P877Z

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

Job name

Simister Island Ground Investigation

Description/Comments

This assessment covers the soil samples collected during the a a ground investigation for the Simister Island project

Asbestos analysis results are not included within this assessment and must be considered separately in terms of waste classification. The reasonable worst case metal compound is assumed in this assessment. Where a failure is identified using the worst case compound, further investigation into the likely metal compound to be found on site is undertaken, based on site history and environmental condition.

The results of this assessment show various samples are hazardous due to elevated TPH triggering HP7 and HP11. It is possible to investigate and potentially change these classifications using the method laid out in WM3. This has not been undertaken for this assessment due to lack of available data.

Project

Simister Island

Site

Simister Island

Classified by

Name: **Oliver Wotton**
 Date: **26 Jun 2023 11:12 GMT**
 Telephone: **0118 946 7033**
 Company: **Jacobs UK Ltd**
1180 Eskdale Road
Winnersh
Wokingham
RG41 5TU

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

HazWasteOnline™ Certification:	CERTIFIED
Course	Date
Hazardous Waste Classification	06 Dec 2018
Most recent 3 year Refresher	07 Jun 2022

Next 3 year Refresher due by Jun 2025

Purpose of classification

1 - Back Office

Address of the waste

Post Code

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

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

Description of the waste

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH02	1	Non Hazardous		5
2	BH02[2]	2.2	Non Hazardous		7
3	BH02[3]	4	Non Hazardous		9
4	BH04	1	Non Hazardous		11
5	BH04[2]	3	Non Hazardous		13
6	BH04[3]	5	Non Hazardous		15
7	BH05	1	Hazardous	HP 7, HP 11	17
8	BH05[2]	3	Non Hazardous		20
9	BH05[3]	7	Non Hazardous		22
10	BH06	1	Hazardous	HP 7, HP 11	24
11	BH06[2]	2	Non Hazardous		27
12	BH06[3]	8.2	Non Hazardous		29
13	BH06[4]	10.2	Non Hazardous		31
14	BH07	1	Hazardous	HP 7, HP 11	33
15	BH07[2]	2	Hazardous	HP 7, HP 11	36
16	BH07[3]	8	Non Hazardous		39
17	BH07[4]	11	Non Hazardous		41
18	BH08	1	Non Hazardous		43
19	BH08[2]	2.1	Non Hazardous		45
20	BH08[3]	3.2	Non Hazardous		47
21	BH10	1	Non Hazardous		49
22	BH10A	0.9	Non Hazardous		51
23	BH10A[2]	2	Non Hazardous		53
24	BH11	0.9	Non Hazardous		55
25	BH11[2]	2	Non Hazardous		57
26	BH12	2	Non Hazardous		59
27	BH13	0.5	Non Hazardous		61
28	BH13[2]	1.75	Non Hazardous		63
29	BH-G01	0.95	Non Hazardous		65
30	BH-G01A	0.5	Non Hazardous		67
31	BH-G02	0.35	Non Hazardous		69
32	BH-G03A	1	Non Hazardous		71
33	BH-G04	0.5	Non Hazardous		73
34	BH-G04[2]	1.8	Non Hazardous		75
35	BH-G06	0.5	Non Hazardous		77
36	BH-G07A	1	Non Hazardous		79
37	BH-G09	0.39	Non Hazardous		81
38	BH-G10	0.5	Non Hazardous		83
39	BH-G11	0.4	Non Hazardous		85
40	BH-N01	0.5	Non Hazardous		87
41	BH-N02	0.5	Non Hazardous		89
42	BH-N02[2]	1.9	Non Hazardous		91
43	BH-N03	1	Non Hazardous		93
44	BH-N04	0.2	Non Hazardous		95
45	BH-N04A	0.25	Non Hazardous		97
46	BH-N05	1	Non Hazardous		99
47	BH-N05[2]	1.5	Non Hazardous		101
48	BH-N06	0.5	Non Hazardous		103
49	BH-N06A	1	Non Hazardous		105
50	BH-N06B	0.5	Non Hazardous		107
51	BH-N06C	0.2	Non Hazardous		109
52	BH-N07	0.1	Non Hazardous		111
53	BH-N07[2]	1	Non Hazardous		113
54	BH-N08	0.2	Non Hazardous		115
55	BH-N08[2]	2	Non Hazardous		117
56	BH-N09	0.5	Non Hazardous		119
57	BH-N10	0.5	Non Hazardous		121
58	BH-N10[2]	1	Non Hazardous		123
59	BH-N11	0.25	Non Hazardous		125
60	BH-N12A	1	Non Hazardous		127
61	BH-N13	0.5	Non Hazardous		129
62	BH-N14	0.5	Non Hazardous		131
63	BH-N14[2]	1	Non Hazardous		133
64	BH-N15	0.5	Non Hazardous		135
65	BH-N16	0.25	Non Hazardous		137
66	BH-N17	0.2	Non Hazardous		139
67	BH-N17[2]	4	Non Hazardous		141

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
68	BH-N17OB	0.2	Non Hazardous		143
69	BH-N18	0.25	Non Hazardous		145
70	BH-N18[2]	1	Non Hazardous		147
71	BH-N18OB	0.2	Non Hazardous		149
72	BH-N19	0.25	Non Hazardous		151
73	BH-N20	0.25	Non Hazardous		153
74	BH-N20[2]	0.5	Non Hazardous		155
75	BH-N21	0.25	Non Hazardous		157
76	BHNO03A	0.25	Non Hazardous		159
77	BHNO03A[2]	1	Non Hazardous		161
78	BH-P02	0.2	Non Hazardous		163
79	BH-P02[2]	3	Non Hazardous		165
80	BH-P03	0.2	Non Hazardous		167
81	BH-P03[2]	1	Non Hazardous		169
82	BH-P10A	0.5	Non Hazardous		171
83	BH-P11	0.5	Non Hazardous		173
84	BH-S01	1	Non Hazardous		175
85	BH-S02	0.5	Non Hazardous		177
86	BH-S03	0.8	Non Hazardous		179
87	BH-S04	0.5	Non Hazardous		181
88	BH-S04[2]	2	Non Hazardous		183
89	BH-S05	0.25	Non Hazardous		185
90	BH-S06	0.5	Non Hazardous		187
91	BH-S07	0.25	Non Hazardous		189
92	BHWS01A	1	Non Hazardous		191
93	BHWS01A[2]	2.1	Non Hazardous		193
94	BHWS02	2	Non Hazardous		195
95	BHWS02[2]	3	Non Hazardous		197
96	BHWS02[3]	4	Non Hazardous		199
97	BHWS03	1	Non Hazardous		201
98	BHWS03[2]	2.2	Non Hazardous		203
99	BHWS04	5	Non Hazardous		205
100	BHWS04[2]	7	Non Hazardous		207
101	BHWS08	2.1	Non Hazardous		209
102	BHWS08[2]	6.1	Non Hazardous		211
103	BHWS09	2	Non Hazardous		213
104	BHWS10	3.5	Non Hazardous		215
105	HDP01	0.25	Non Hazardous		217
106	HDP02	0.3	Non Hazardous		219
107	HDP03	0.25	Non Hazardous		221
108	HDP05	0.5	Non Hazardous		223
109	HDP06	0.25	Non Hazardous		225
110	HDP07	0.25	Non Hazardous		227
111	HDP07[2]	1	Non Hazardous		229
112	HDP08	0.25	Non Hazardous		231
113	HDP08[2]	1	Non Hazardous		233
114	HDP09	0.55	Non Hazardous		235
115	HDP09[2]	1.35	Non Hazardous		237
116	HDP10	0.15	Non Hazardous		239
117	HDP10[2]	0.5	Non Hazardous		241
118	HDP12	0.1	Non Hazardous		243
119	HDP12[2]	0.5	Non Hazardous		245
120	TP-N01	0.2	Non Hazardous		247
121	TP-N01[2]	0.5	Non Hazardous		249
122	TP-N02	0.5	Non Hazardous		251
123	WS01	0.8	Non Hazardous		253
124	WS01[2]	1.5	Non Hazardous		255
125	WS02	0.5	Non Hazardous		257
126	WS03	0.6	Non Hazardous		259
127	WS04	1	Non Hazardous		261
128	WS04[2]	2	Non Hazardous		263
129	WS05	0.5	Non Hazardous		265
130	WS05[2]	2	Non Hazardous		267
131	WS06	0.7	Non Hazardous		269
132	WS06[2]	2	Non Hazardous		271
133	WS07	0.7	Non Hazardous		273
134	WS07[2]	1.9	Non Hazardous		275
135	WS08	0.3	Hazardous	HP 7, HP 11	277
136	WS08[2]	0.8	Non Hazardous		280
137	WS09	0.8	Non Hazardous		282

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
138	WS10	1	Non Hazardous		284
139	WS10[2]	1.5	Non Hazardous		286
140	WS-G08A	0.1	Non Hazardous		288
141	WS-N01	1.5	Non Hazardous		290
142	WS-N02A	1	Non Hazardous		292
143	WS-N02B	0.5	Non Hazardous		294
144	WS-N03	0.5	Non Hazardous		296
145	WS-N04	0.2	Non Hazardous		298
146	WS-N04A	0.1	Non Hazardous		300
147	WS-N04A[2]	0.5	Non Hazardous		302
148	WS-N05	1	Non Hazardous		304
149	WS-N05A	0.5	Non Hazardous		306
150	WS-N06	0.2	Non Hazardous		308
151	WS-N06A	0.5	Non Hazardous		310
152	WS-N07	0.2	Non Hazardous		312
153	WS-N08	0.25	Non Hazardous		314
154	WS-N09	0.2	Non Hazardous		316
155	WS-N10	0.2	Non Hazardous		318
156	WS-N10[2]	2.5	Non Hazardous		320
157	WS-N11	0.5	Hazardous	HP 7, HP 11	322
158	WS-N11[2]	1	Non Hazardous		325
159	WS-N12	0.1	Non Hazardous		327
160	WS-N12C	0.5	Non Hazardous		329
161	WS-N12C[2]	2.2	Non Hazardous		331
162	WS-N13	0.1	Non Hazardous		333
163	WS-N14	0.1	Non Hazardous		335
164	WS-N15	0.2	Non Hazardous		337
165	WS-N16	0.2	Non Hazardous		339
166	WS-P01	0.5	Non Hazardous		341
167	WS-P02	0.1	Non Hazardous		343
168	WS-P03	0.1	Non Hazardous		345
169	WS-P04	0.5	Non Hazardous		347
170	WS-P06	0.2	Non Hazardous		349
171	WS-P09	0.2	Non Hazardous		351
172	WS-P09[2]	0.5	Non Hazardous		353
173	WS-S01	0.65	Non Hazardous		355
174	WS-S02	0.5	Non Hazardous		357
175	WS-S02[2]	3.1	Non Hazardous		359
176	WS-S03	1	Non Hazardous		361
177	WS-S03[2]	1.8	Non Hazardous		363
178	WS-S04	0.2	Non Hazardous		365
179	WS-S05	0.2	Non Hazardous		367
180	WS-S06	0.5	Non Hazardous		369
181	WS-S06A	0.5	Non Hazardous		371

Related documents

#	Name	Description
1	Simister Island	waste stream template used to create this Job

Report

Created by: Oliver Wotton

Created date: 26 Jun 2023 11:12 GMT

Appendices

	Page
Appendix A: Classifier defined and non GB MCL determinands	373
Appendix B: Rationale for selection of metal species	374
Appendix C: Version	375

Classification of sample: BH02

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

Sample details

Sample name:	LoW Code:	
BH02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
4.3% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 4.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.3	mg/kg	1.32	4.177	mg/kg	0.000418 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.27	mg/kg	2.775	0.718	mg/kg	0.0000718 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10	mg/kg	1.462	14.013	mg/kg	0.0014 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				12	mg/kg	1.126	12.954	mg/kg	0.0013 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	3.8	mg/kg	1.56	5.683	mg/kg	0.000364 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				14	mg/kg	2.976	39.95	mg/kg	0.00399 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				30	mg/kg	1.968	56.617	mg/kg	0.00566 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.6 pH		8.6 pH	8.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0201 %		

Key

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

Classification of sample: BH02[2]

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

Sample details

Sample name:	LoW Code:	
BH02[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.2 m		
Moisture content:		
9.8% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 9.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.6	mg/kg	1.197	1.744	mg/kg	0.000174 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.4	mg/kg	1.32	4.088	mg/kg	0.000409 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.38	mg/kg	2.775	0.961	mg/kg	0.0000961 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11	mg/kg	1.462	14.642	mg/kg	0.00146 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				9.5	mg/kg	1.126	9.741	mg/kg	0.000974 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	9.5	mg/kg	1.56	13.496	mg/kg	0.000865 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.45	mg/kg	1.5	0.615	mg/kg	0.0000615 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				10	mg/kg	2.976	27.106	mg/kg	0.00271 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				31	mg/kg	1.968	55.574	mg/kg	0.00556 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.9 pH		7.9 pH	7.9 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0191 %		

Key

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

Classification of sample: BH02[3]

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

Sample details

Sample name:	LoW Code:	
BH02[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4 m		
Moisture content:		
12% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 12% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide } 051-005-00-X 215-175-0 1309-64-4				2.9	mg/kg	1.197	3.1	mg/kg	0.00031 %	✓	
2	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				5.1	mg/kg	1.32	6.012	mg/kg	0.000601 %	✓	
3	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				1.4	mg/kg	2.775	3.469	mg/kg	0.000347 %	✓	
4	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				0.5	mg/kg	1.142	0.51	mg/kg	0.000051 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				34	mg/kg	1.462	44.369	mg/kg	0.00444 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
7	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				27	mg/kg	1.126	27.142	mg/kg	0.00271 %	✓	
8	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	35	mg/kg	1.56	48.744	mg/kg	0.00313 %	✓	
9	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
10	molybdenum { molybdenum(VI) oxide } 042-001-00-9 215-204-7 1313-27-5				0.99	mg/kg	1.5	1.326	mg/kg	0.000133 %	✓	
11	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				38	mg/kg	2.976	100.98	mg/kg	0.0101 %	✓	
12	selenium { nickel selenate } 028-031-00-5 239-125-2 15060-62-5				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				110	mg/kg	1.968	193.325	mg/kg	0.0193 %	✓	
14	TPH (C6 to C40) petroleum group TPH				2.6	mg/kg		2.321	mg/kg	0.000232 %	✓	
15	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
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<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								
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
20	pH		PH		7.1 pH		7.1 pH	7.1 pH			
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
25	phenanthrene	201-581-5	85-01-8		0.15 mg/kg		0.134 mg/kg	0.0000134 %	✓		
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
27	fluoranthene	205-912-4	206-44-0		0.12 mg/kg		0.107 mg/kg	0.0000107 %	✓		
28	pyrene	204-927-3	129-00-0		0.12 mg/kg		0.107 mg/kg	0.0000107 %	✓		
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
33	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	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
35	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	
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
Total:								0.0422 %			

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00023%)

Classification of sample: BH04

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

Sample details

Sample name:	LoW Code:	
BH04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
5.9% (dry weight correction)		

Hazard properties


None identified

Determinands

Moisture content: 5.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.9	mg/kg	1.197	2.148	mg/kg	0.000215 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				4.4	mg/kg	1.32	5.486	mg/kg	0.000549 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.5	mg/kg	2.775	1.31	mg/kg	0.000131 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.324	mg/kg	0.0000324 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15	mg/kg	1.462	20.702	mg/kg	0.00207 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				11	mg/kg	1.126	11.695	mg/kg	0.00117 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	8	mg/kg	1.56	11.783	mg/kg	0.000755 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				23	mg/kg	2.976	64.64	mg/kg	0.00646 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				47	mg/kg	1.968	87.36	mg/kg	0.00874 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				117	mg/kg		110.482	mg/kg	0.011 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.8 pH		8.8 pH	8.8 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.11 mg/kg		0.104 mg/kg	0.0000104 %	✓	
28	pyrene	204-927-3	129-00-0		0.16 mg/kg		0.151 mg/kg	0.0000151 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.07 mg/kg		0.0661 mg/kg	0.00000661 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.09 mg/kg		0.085 mg/kg	0.0000085 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.15 mg/kg		0.142 mg/kg	0.0000142 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.1 mg/kg		0.0944 mg/kg	0.00000944 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.18 mg/kg		0.17 mg/kg	0.000017 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0321 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.011%)

Classification of sample: BH04[2]

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

Sample details

Sample name:	LoW Code:	
BH04[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3 m		
Moisture content:		
7.1% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 7.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				1.7	mg/kg	1.32	2.096	mg/kg	0.00021 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.41	mg/kg	2.775	1.062	mg/kg	0.000106 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.9	mg/kg	1.462	13.51	mg/kg	0.00135 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	13.666	mg/kg	0.00137 %	✓	
		029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	5.6	mg/kg	1.56	8.156	mg/kg	0.000523 %	✓	
		082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				0.54	mg/kg	1.5	0.756	mg/kg	0.0000756 %	✓	
		042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				19	mg/kg	2.976	52.8	mg/kg	0.00528 %	✓	
		028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5								
13	zinc { trizinc bis(orthophosphate) }				25	mg/kg	1.968	45.948	mg/kg	0.00459 %	✓	
		030-011-00-6	231-944-3	7779-90-0								
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3								

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.3 pH		8.3 pH	8.3 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		0.2 mg/kg		0.187 mg/kg	0.0000187 %	✓	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.06 mg/kg		0.056 mg/kg	0.0000056 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0204 %		

Key

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

Classification of sample: BH04[3]

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

Sample details

Sample name:	LoW Code:	
BH04[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5 m		
Moisture content:		
18% (dry weight correction)		

Hazard properties

None identified

Determinands

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


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.4	mg/kg	1.197	1.42	mg/kg	0.000142 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.8	mg/kg	1.32	4.252	mg/kg	0.000425 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.39	mg/kg	2.775	0.917	mg/kg	0.0000917 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7.4	mg/kg	1.462	9.166	mg/kg	0.000917 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	15.266	mg/kg	0.00153 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	7.3	mg/kg	1.56	9.65	mg/kg	0.000619 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.29	mg/kg	1.5	0.369	mg/kg	0.0000369 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				11	mg/kg	2.976	27.745	mg/kg	0.00277 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				30	mg/kg	1.968	50.044	mg/kg	0.005 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.7 pH		7.7 pH	7.7 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0183 %		

Key

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

Classification of sample: BH05



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

Sample details

Sample name:	LoW Code:	
BH05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1 m		
Moisture content:		
2.2% (dry weight correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.126%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.126%)


Determinands

Moisture content: 2.2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2.5 mg/kg	1.32	3.23 mg/kg	0.000323 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.11 mg/kg	2.775	0.299 mg/kg	0.000299 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.671 mg/kg	0.0000671 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				5.4 mg/kg	1.462	7.723 mg/kg	0.000772 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				4.4 mg/kg	1.126	4.847 mg/kg	0.000485 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	8.6 mg/kg	1.56	13.126 mg/kg	0.000841 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							

#	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								
10	molybdenum { molybdenum(VI) oxide }				0.62 mg/kg	1.5	0.91 mg/kg	0.000091 %	✓		
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				5.3 mg/kg	2.976	15.435 mg/kg	0.00154 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD	
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { trizinc bis(orthophosphate) }				28 mg/kg	1.968	53.929 mg/kg	0.00539 %	✓		
	030-011-00-6	231-944-3	7779-90-0								
14	TPH (C6 to C40) petroleum group				1291.9 mg/kg		1264.09 mg/kg	0.126 %	✓		
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD	
	603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD	
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD	
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD	
	601-023-00-4	202-849-4	100-41-4								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
	006-007-00-5										
20	pH				11.4 pH		11.4 pH	11.4 pH			
			PH								
21	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		205-917-1	208-96-8								
23	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		201-469-6	83-32-9								
24	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
		201-695-5	86-73-7								
25	phenanthrene				0.18 mg/kg		0.176 mg/kg	0.0000176 %	✓		
		201-581-5	85-01-8								
26	anthracene				0.13 mg/kg		0.127 mg/kg	0.0000127 %	✓		
		204-371-1	120-12-7								
27	fluoranthene				0.36 mg/kg		0.352 mg/kg	0.0000352 %	✓		
		205-912-4	206-44-0								
28	pyrene				0.49 mg/kg		0.479 mg/kg	0.0000479 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.3 mg/kg		0.294 mg/kg	0.0000294 %	✓		
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.36 mg/kg		0.352 mg/kg	0.0000352 %	✓		
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.86 mg/kg		0.841 mg/kg	0.0000841 %	✓		
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				0.53 mg/kg		0.519 mg/kg	0.0000519 %	✓		
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				1.3 mg/kg		1.272 mg/kg	0.000127 %	✓		
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.94 mg/kg		0.92 mg/kg	0.000092 %	✓		
		205-893-2	193-39-5								
35	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								
36	benzo[ghi]perylene				1.1 mg/kg		1.076 mg/kg	0.000108 %	✓		
		205-883-8	191-24-2								
Total:									0.137 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.126%)

EVALUATION VERSION

Classification of sample: BH05[2]

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

Sample details

Sample name:	LoW Code:	
BH05[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3 m		
Moisture content:		
16% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 16% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				4.3 mg/kg	1.197	4.438 mg/kg	0.000444 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				56 mg/kg	1.32	63.74 mg/kg	0.00637 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				1.8 mg/kg	2.775	4.307 mg/kg	0.000431 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23 mg/kg	1.462	28.979 mg/kg	0.0029 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				45 mg/kg	1.126	43.677 mg/kg	0.00437 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	30 mg/kg	1.56	40.34 mg/kg	0.00259 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				1.9 mg/kg	1.5	2.457 mg/kg	0.000246 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				29 mg/kg	2.976	74.407 mg/kg	0.00744 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				48 mg/kg	1.968	81.451 mg/kg	0.00815 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				314 mg/kg		270.69 mg/kg	0.0271 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.8 pH		8.8 pH	8.8 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.14 mg/kg		0.121 mg/kg	0.0000121 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.63 mg/kg		0.543 mg/kg	0.0000543 %	✓	
28	pyrene	204-927-3	129-00-0		0.99 mg/kg		0.853 mg/kg	0.0000853 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.5 mg/kg		0.431 mg/kg	0.0000431 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.51 mg/kg		0.44 mg/kg	0.000044 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1 mg/kg		0.862 mg/kg	0.0000862 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.59 mg/kg		0.509 mg/kg	0.0000509 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.3 mg/kg		1.121 mg/kg	0.000112 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.67 mg/kg		0.578 mg/kg	0.0000578 %	✓	
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		0.78 mg/kg		0.672 mg/kg	0.0000672 %	✓	
Total:								0.0614 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0271%)

Classification of sample: BH05[3]

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

Sample details

Sample name:	LoW Code:	
BH05[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7 m		
Moisture content:		
8% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				4.5 mg/kg	1.32	5.501 mg/kg	0.00055 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.43 mg/kg	2.775	1.105 mg/kg	0.00011 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.8 mg/kg	1.462	13.262 mg/kg	0.00133 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				5.8 mg/kg	1.126	6.046 mg/kg	0.000605 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	7.5 mg/kg	1.56	10.832 mg/kg	0.000694 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				0.67 mg/kg	1.5	0.931 mg/kg	0.0000931 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				10 mg/kg	2.976	27.558 mg/kg	0.00276 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				36 mg/kg	1.968	65.613 mg/kg	0.00656 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				34.4 mg/kg		31.852 mg/kg	0.00319 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.7 pH		7.7 pH	7.7 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0169 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00319%)

Classification of sample: BH06



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

Sample details

Sample name:	LoW Code:
BH06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
3.6%	
(dry weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.156%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.156%)

Determinands

Moisture content: 3.6% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.549 mg/kg	0.000255 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.3 mg/kg	2.775	0.804 mg/kg	0.0000804 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.662 mg/kg	0.0000662 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				6.2 mg/kg	1.462	8.747 mg/kg	0.000875 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				4.6 mg/kg	1.126	4.999 mg/kg	0.0005 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	11 mg/kg	1.56	16.562 mg/kg	0.00106 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							

#	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									
10	molybdenum { molybdenum(VI) oxide }				0.44	mg/kg	1.5	0.637	mg/kg	0.0000637 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				6.4	mg/kg	2.976	18.386	mg/kg	0.00184 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				28	mg/kg	1.968	53.2	mg/kg	0.00532 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				1615	mg/kg		1558.88	mg/kg	0.156 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.8	pH		8.8	pH	8.8 pH		
			PH									
21	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.35	mg/kg		0.338	mg/kg	0.0000338 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.22	mg/kg		0.212	mg/kg	0.0000212 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				1.7	mg/kg		1.641	mg/kg	0.000164 %	✓	
		205-912-4	206-44-0									
28	pyrene				2.4	mg/kg		2.317	mg/kg	0.000232 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				1.2	mg/kg		1.158	mg/kg	0.000116 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				1.3	mg/kg		1.255	mg/kg	0.000125 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				3.7	mg/kg		3.571	mg/kg	0.000357 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				1.5	mg/kg		1.448	mg/kg	0.000145 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				4.2	mg/kg		4.054	mg/kg	0.000405 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				3	mg/kg		2.896	mg/kg	0.00029 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.61	mg/kg		0.589	mg/kg	0.0000589 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				3.7	mg/kg		3.571	mg/kg	0.000357 %	✓	
		205-883-8	191-24-2									
Total:										0.169 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
☞	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.156%)

EVALUATION VERSION

Classification of sample: BH06[2]

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

Sample details

Sample name:	LoW Code:	
BH06[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
20% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 20% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				4.5	mg/kg	1.197	4.489	mg/kg	0.000449 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				100	mg/kg	1.32	110.027	mg/kg	0.011 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				3.2	mg/kg	2.775	7.401	mg/kg	0.00074 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				37	mg/kg	1.462	45.065	mg/kg	0.00451 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				78	mg/kg	1.126	73.183	mg/kg	0.00732 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	45	mg/kg	1.56	58.493	mg/kg	0.00375 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				3	mg/kg	1.5	3.75	mg/kg	0.000375 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				46	mg/kg	2.976	114.09	mg/kg	0.0114 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				79	mg/kg	1.968	129.586	mg/kg	0.013 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9 pH		9 pH	9pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0593 %		

Key

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

Classification of sample: BH06[3]

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

Sample details

Sample name:	LoW Code:	
BH06[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.2 m		
Moisture content:		
13% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 13% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.8	mg/kg	1.197	1.907	mg/kg	0.000191 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				21	mg/kg	1.32	24.537	mg/kg	0.00245 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.83	mg/kg	2.775	2.039	mg/kg	0.000204 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19	mg/kg	1.462	24.575	mg/kg	0.00246 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				29	mg/kg	1.126	28.894	mg/kg	0.00289 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	16	mg/kg	1.56	22.086	mg/kg	0.00142 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				3.7	mg/kg	1.5	4.912	mg/kg	0.000491 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				18	mg/kg	2.976	47.41	mg/kg	0.00474 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				43	mg/kg	1.968	74.904	mg/kg	0.00749 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				31	mg/kg		27.434	mg/kg	0.00274 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.5 pH		8.5 pH	8.5 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.1 mg/kg		0.0885 mg/kg	0.00000885 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0259 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00274%)

Classification of sample: BH06[4]

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

Sample details

Sample name:	LoW Code:	
BH06[4]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.2 m		
Moisture content:		
17% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				4.6	mg/kg	1.32	5.191	mg/kg	0.000519 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.37	mg/kg	2.775	0.878	mg/kg	0.0000878 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.7	mg/kg	1.462	12.117	mg/kg	0.00121 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	13.472	mg/kg	0.00135 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	8.4	mg/kg	1.56	11.199	mg/kg	0.000718 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				1.2	mg/kg	1.5	1.539	mg/kg	0.000154 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				16	mg/kg	2.976	40.701	mg/kg	0.00407 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				41	mg/kg	1.968	68.978	mg/kg	0.0069 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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								
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
20	pH		PH		7.6 pH		7.6 pH	7.6 pH			
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	phenanthrene	201-581-5	85-01-8		0.12 mg/kg		0.103 mg/kg	0.0000103 %		✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
Total:									0.0219 %		

Key

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

Classification of sample: BH07



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

Sample details

Sample name:	LoW Code:
BH07	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
1.8% (dry weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.351%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.351%)


Determinands

Moisture content: 1.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2.7 mg/kg	1.32	3.502 mg/kg	0.00035 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.22 mg/kg	2.775	0.6 mg/kg	0.00006 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.5 mg/kg	1.142	0.561 mg/kg	0.0000561 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7.8 mg/kg	1.462	11.199 mg/kg	0.00112 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				8.9 mg/kg	1.126	9.843 mg/kg	0.000984 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	15 mg/kg	1.56	22.984 mg/kg	0.00147 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							

#	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							
10	molybdenum { molybdenum(VI) oxide }				0.55 mg/kg	1.5	0.811 mg/kg	0.0000811 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				8.4 mg/kg	2.976	24.559 mg/kg	0.00246 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				38 mg/kg	1.968	73.476 mg/kg	0.00735 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				3574.5 mg/kg		3511.297 mg/kg	0.351 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH				8.8 pH		8.8 pH	8.8 pH		
			PH							
21	naphthalene				0.15 mg/kg		0.147 mg/kg	0.0000147 %	✓	
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				0.08 mg/kg		0.0786 mg/kg	0.00000786 %	✓	
		205-917-1	208-96-8							
23	acenaphthene				0.54 mg/kg		0.53 mg/kg	0.000053 %	✓	
		201-469-6	83-32-9							
24	fluorene				0.47 mg/kg		0.462 mg/kg	0.0000462 %	✓	
		201-695-5	86-73-7							
25	phenanthrene				4.6 mg/kg		4.519 mg/kg	0.000452 %	✓	
		201-581-5	85-01-8							
26	anthracene				1.6 mg/kg		1.572 mg/kg	0.000157 %	✓	
		204-371-1	120-12-7							
27	fluoranthene				10 mg/kg		9.823 mg/kg	0.000982 %	✓	
		205-912-4	206-44-0							
28	pyrene				10 mg/kg		9.823 mg/kg	0.000982 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				5.5 mg/kg		5.403 mg/kg	0.00054 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				4.7 mg/kg		4.617 mg/kg	0.000462 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				8.3 mg/kg		8.153 mg/kg	0.000815 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				2.8 mg/kg		2.75 mg/kg	0.000275 %	✓	
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				8.3 mg/kg		8.153 mg/kg	0.000815 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				4.1 mg/kg		4.028 mg/kg	0.000403 %	✓	
		205-893-2	193-39-5							
35	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							
36	benzo[ghi]perylene				5.1 mg/kg		5.01 mg/kg	0.000501 %	✓	
		205-883-8	191-24-2							
Total:								0.372 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:


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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.351%)

EVALUATION VERSION

Classification of sample: BH07[2]



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

Sample details

Sample name:	LoW Code:
BH07[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
11%	
(dry weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.142%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.142%)

Determinands

Moisture content: 11% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				1.4 mg/kg	1.197	1.51 mg/kg	0.000151 %	✓		
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				16 mg/kg	1.32	19.032 mg/kg	0.0019 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
3	beryllium { beryllium oxide }				0.66 mg/kg	2.775	1.65 mg/kg	0.000165 %	✓		
	004-003-00-8	215-133-1	1304-56-9								
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD	
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	19.751 mg/kg	0.00198 %	✓		
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD	
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				21 mg/kg	1.126	21.301 mg/kg	0.00213 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	18 mg/kg	1.56	25.294 mg/kg	0.00162 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD	
	080-010-00-X	231-299-8	7487-94-7								

#	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									
10	molybdenum { molybdenum(VI) oxide }				2.1	mg/kg	1.5	2.838	mg/kg	0.000284 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				15	mg/kg	2.976	40.22	mg/kg	0.00402 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				60	mg/kg	1.968	106.4	mg/kg	0.0106 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				1571.7	mg/kg		1415.946	mg/kg	0.142 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9	pH		9	pH	9pH		
			PH									
21	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
24	fluorene				0.06	mg/kg		0.0541	mg/kg	0.00000541 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.7	mg/kg		0.631	mg/kg	0.0000631 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.23	mg/kg		0.207	mg/kg	0.0000207 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				1.7	mg/kg		1.532	mg/kg	0.000153 %	✓	
		205-912-4	206-44-0									
28	pyrene				1.9	mg/kg		1.712	mg/kg	0.000171 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.96	mg/kg		0.865	mg/kg	0.0000865 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.92	mg/kg		0.829	mg/kg	0.0000829 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				2	mg/kg		1.802	mg/kg	0.00018 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.69	mg/kg		0.622	mg/kg	0.0000622 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				2	mg/kg		1.802	mg/kg	0.00018 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				1.4	mg/kg		1.261	mg/kg	0.000126 %	✓	
		205-893-2	193-39-5									
35	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									
36	benzo[ghi]perylene				1.6	mg/kg		1.441	mg/kg	0.000144 %	✓	
		205-883-8	191-24-2									
Total:										0.167 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
☞	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.142%)

EVALUATION VERSION

Classification of sample: BH07[3]

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

Sample details

Sample name:	LoW Code:	
BH07[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8 m		
Moisture content:		
26% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 26% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				4.6 mg/kg	1.197	4.37 mg/kg	0.000437 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				98 mg/kg	1.32	102.692 mg/kg	0.0103 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				3.2 mg/kg	2.775	7.048 mg/kg	0.000705 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				38 mg/kg	1.462	44.079 mg/kg	0.00441 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				88 mg/kg	1.126	78.633 mg/kg	0.00786 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	36 mg/kg	1.56	44.566 mg/kg	0.00286 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				8.6 mg/kg	1.5	10.239 mg/kg	0.00102 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				48 mg/kg	2.976	113.382 mg/kg	0.0113 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				62 mg/kg	1.968	96.858 mg/kg	0.00969 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				<58.804 mg/kg		<58.804 mg/kg	<0.00588 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.5 pH		9.5 pH	9.5 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		0.1 mg/kg		0.0794 mg/kg	0.00000794 %	✓	
22	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene 201-581-5	85-01-8			0.05 mg/kg		0.0397 mg/kg	0.00000397 %	✓	
26	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene 205-912-4	206-44-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene 204-927-3	129-00-0			0.07 mg/kg		0.0556 mg/kg	0.00000556 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0553 %		

Key

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

Classification of sample: BH07[4]

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

Sample details

Sample name:	LoW Code:	
BH07[4]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11 m		
Moisture content:		
23% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 23% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				2.6	mg/kg	1.32	2.791	mg/kg	0.000279 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.31	mg/kg	2.775	0.699	mg/kg	0.0000699 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.5	mg/kg	1.462	11.288	mg/kg	0.00113 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				2.5	mg/kg	2.27	4.614	mg/kg	0.000461 %	✓	
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	12.815	mg/kg	0.00128 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	12	mg/kg	1.56	15.218	mg/kg	0.000976 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				11	mg/kg	2.976	26.617	mg/kg	0.00266 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				24	mg/kg	1.968	38.408	mg/kg	0.00384 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		6.9 pH		6.9 pH	6.9 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.08 mg/kg		0.065 mg/kg	0.0000065 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.05 mg/kg		0.0407 mg/kg	0.00000407 %	✓	
28	pyrene	204-927-3	129-00-0		0.08 mg/kg		0.065 mg/kg	0.0000065 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0173 %		

Key

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

Classification of sample: BH08

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

Sample details

Sample name:	LoW Code:	
BH08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
9.5% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 9.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				2.4	mg/kg	1.32	2.894	mg/kg	0.000289 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.58	mg/kg	2.775	1.47	mg/kg	0.000147 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11	mg/kg	1.462	14.682	mg/kg	0.00147 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				1.2	mg/kg	2.27	2.488	mg/kg	0.000249 %	✓	
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	13.367	mg/kg	0.00134 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	12	mg/kg	1.56	17.094	mg/kg	0.0011 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.26	mg/kg	1.5	0.356	mg/kg	0.0000356 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				13	mg/kg	2.976	35.335	mg/kg	0.00353 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				34	mg/kg	1.968	61.119	mg/kg	0.00611 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.8 pH		8.8 pH	8.8 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0209 %		

Key

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

Classification of sample: BH08[2]

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

Sample details

Sample name:	LoW Code:	
BH08[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.1 m		
Moisture content:		
8.9% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 8.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				2.9	mg/kg	1.32	3.516	mg/kg	0.000352 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.54	mg/kg	2.775	1.376	mg/kg	0.000138 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12	mg/kg	1.462	16.105	mg/kg	0.00161 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				12	mg/kg	1.126	12.406	mg/kg	0.00124 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	14	mg/kg	1.56	20.053	mg/kg	0.00129 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.87	mg/kg	1.5	1.198	mg/kg	0.00012 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				16	mg/kg	2.976	43.728	mg/kg	0.00437 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				72	mg/kg	1.968	130.142	mg/kg	0.013 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.6 pH		8.6 pH	8.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.029 %		

Key

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

Classification of sample: BH08[3]

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

Sample details

Sample name:	LoW Code:	
BH08[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.2 m		
Moisture content:		
12% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 12% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				4.4	mg/kg	1.32	5.187	mg/kg	0.000519 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.34	mg/kg	2.775	0.843	mg/kg	0.0000843 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12	mg/kg	1.462	15.66	mg/kg	0.00157 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	13.068	mg/kg	0.00131 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	6.8	mg/kg	1.56	9.47	mg/kg	0.000607 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				1.3	mg/kg	1.5	1.741	mg/kg	0.000174 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				8.9	mg/kg	2.976	23.651	mg/kg	0.00237 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				25	mg/kg	1.968	43.937	mg/kg	0.00439 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.2 pH		8.2 pH	8.2 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0179 %		

Key

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

Classification of sample: **BH10**

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

Sample details

Sample name:	LoW Code:	
BH10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
4.8% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 4.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.9	mg/kg	1.32	4.913	mg/kg	0.000491 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.37	mg/kg	2.775	0.98	mg/kg	0.000098 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.327	mg/kg	0.0000327 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12	mg/kg	1.462	16.735	mg/kg	0.00167 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				12	mg/kg	1.126	12.892	mg/kg	0.00129 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	7	mg/kg	1.56	10.419	mg/kg	0.000668 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.29	mg/kg	1.5	0.415	mg/kg	0.0000415 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				19	mg/kg	2.976	53.959	mg/kg	0.0054 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				42	mg/kg	1.968	78.886	mg/kg	0.00789 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.1 pH		9.1 pH	9.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0244 %		

Key

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

Classification of sample: **BH10A**

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

Sample details

Sample name:	LoW Code:	
BH10A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.9 m		
Moisture content:		
6.1% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 6.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.6	mg/kg	1.197	1.805	mg/kg	0.000181 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.8	mg/kg	1.32	4.729	mg/kg	0.000473 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.36	mg/kg	2.775	0.942	mg/kg	0.0000942 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.323	mg/kg	0.0000323 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11	mg/kg	1.462	15.153	mg/kg	0.00152 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	13.795	mg/kg	0.00138 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	5.4	mg/kg	1.56	7.939	mg/kg	0.000509 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.31	mg/kg	1.5	0.438	mg/kg	0.0000438 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				17	mg/kg	2.976	47.688	mg/kg	0.00477 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				42	mg/kg	1.968	77.92	mg/kg	0.00779 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.7 pH		8.7 pH	8.7 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0235 %		

Key

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

Classification of sample: BH10A[2]

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

Sample details

Sample name:	LoW Code:	
BH10A[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
18% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				6.7	mg/kg	1.32	7.497	mg/kg	0.00075 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.47	mg/kg	2.775	1.105	mg/kg	0.000111 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12	mg/kg	1.462	14.863	mg/kg	0.00149 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				17	mg/kg	1.126	16.22	mg/kg	0.00162 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	10	mg/kg	1.56	13.219	mg/kg	0.000847 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.35	mg/kg	1.5	0.445	mg/kg	0.0000445 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				17	mg/kg	2.976	42.878	mg/kg	0.00429 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				45	mg/kg	1.968	75.066	mg/kg	0.00751 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				21.9	mg/kg		18.559	mg/kg	0.00186 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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								
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
20	pH		PH		7.7 pH		7.7 pH	7.7 pH			
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
33	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	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
35	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	
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
Total:									0.0195 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00186%)

Classification of sample: BH11

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

Sample details

Sample name:	LoW Code:	
BH11	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.9 m		
Moisture content:		
5.8% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				4.3	mg/kg	1.32	5.366	mg/kg	0.000537 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.45	mg/kg	2.775	1.18	mg/kg	0.000118 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.324	mg/kg	0.0000324 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14	mg/kg	1.462	19.34	mg/kg	0.00193 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				15	mg/kg	1.126	15.962	mg/kg	0.0016 %	✓	
		029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	6.8	mg/kg	1.56	10.025	mg/kg	0.000643 %	✓	
		082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
		042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				22	mg/kg	2.976	61.888	mg/kg	0.00619 %	✓	
		028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5								
13	zinc { trizinc bis(orthophosphate) }				49	mg/kg	1.968	91.164	mg/kg	0.00912 %	✓	
		030-011-00-6	231-944-3	7779-90-0								
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4								
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3								

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.6 pH		8.6 pH	8.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.027 %		

Key

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

Classification of sample: BH11[2]

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

Sample details

Sample name:	LoW Code:	
BH11[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
15% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				5.1	mg/kg	1.32	5.855	mg/kg	0.000586 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.82	mg/kg	2.775	1.979	mg/kg	0.000198 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21	mg/kg	1.462	26.689	mg/kg	0.00267 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	20.56	mg/kg	0.00206 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	9.8	mg/kg	1.56	13.292	mg/kg	0.000852 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.45	mg/kg	1.5	0.587	mg/kg	0.0000587 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				26	mg/kg	2.976	67.289	mg/kg	0.00673 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				51	mg/kg	1.968	87.294	mg/kg	0.00873 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.1 pH		8.1 pH	8.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0287 %		

Key

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

Classification of sample: **BH12**

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

Sample details

Sample name:	LoW Code:
BH12	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m	
Moisture content:	
16% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 16% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.8	mg/kg	1.32	4.325	mg/kg	0.000433 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.57	mg/kg	2.775	1.364	mg/kg	0.000136 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.197	mg/kg	0.0000197 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11	mg/kg	1.462	13.86	mg/kg	0.00139 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	13.588	mg/kg	0.00136 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	11	mg/kg	1.56	14.791	mg/kg	0.000948 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.4	mg/kg	1.5	0.517	mg/kg	0.0000517 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				16	mg/kg	2.976	41.052	mg/kg	0.00411 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				41	mg/kg	1.968	69.573	mg/kg	0.00696 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.8 pH		7.8 pH	7.8 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0222 %		

Key

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

Classification of sample: BH13

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

Sample details

Sample name:	LoW Code:	
BH13	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		
Moisture content:		
2% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				<0.06	mg/kg	2.775	<0.167	mg/kg	<0.0000167 %		<LOD
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.336	mg/kg	0.0000336 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				3.5	mg/kg	1.462	5.015	mg/kg	0.000502 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				2.2	mg/kg	1.126	2.428	mg/kg	0.000243 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	1.4	mg/kg	1.56	2.141	mg/kg	0.000137 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				2.1	mg/kg	2.976	6.128	mg/kg	0.000613 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				6.1	mg/kg	1.968	11.772	mg/kg	0.00118 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.4 pH		9.4 pH	9.4 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.00973 %		

Key

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

Classification of sample: BH13[2]

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

Sample details

Sample name:	LoW Code:	
BH13[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.75 m		
Moisture content:		
13% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 13% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.2	mg/kg	1.197	2.331	mg/kg	0.000233 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				17	mg/kg	1.32	19.863	mg/kg	0.00199 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.75	mg/kg	2.775	1.842	mg/kg	0.000184 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18	mg/kg	1.462	23.281	mg/kg	0.00233 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				29	mg/kg	1.126	28.894	mg/kg	0.00289 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	13	mg/kg	1.56	17.945	mg/kg	0.00115 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.97	mg/kg	1.5	1.288	mg/kg	0.000129 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				26	mg/kg	2.976	68.48	mg/kg	0.00685 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				44	mg/kg	1.968	76.646	mg/kg	0.00766 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.9 pH		8.9 pH	8.9 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0302 %		

Key

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

Classification of sample: BH-G01

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

Sample details

Sample name:	LoW Code:	
BH-G01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.95 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15	mg/kg	1.126	16.888	mg/kg	0.00169 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	4	mg/kg	1.56	6.239	mg/kg	0.0004 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.58	mg/kg	1.353	2.139	mg/kg	0.000214 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19	mg/kg	2.976	56.549	mg/kg	0.00565 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1	mg/kg	2.554	2.554	mg/kg	0.000255 %	✓
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		35	mg/kg	1.968	68.894	mg/kg	0.00689 %	✓
14	TPH (C6 to C40) petroleum group			TPH		5	mg/kg		5	mg/kg	0.0005 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.02	pH		9.02	pH	9.02 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0197 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0005%)

Classification of sample: BH-G01A



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

Sample details

Sample name:	LoW Code:	
BH-G01A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	6 mg/kg	1.462	8.769 mg/kg	0.000877 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	4 mg/kg	1.126	4.504 mg/kg	0.00045 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	4 mg/kg	1.56	6.239 mg/kg	0.0004 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	4.22 mg/kg	1.353	5.712 mg/kg	0.000571 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	6 mg/kg	2.976	17.858 mg/kg	0.00179 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	25 mg/kg	1.968	49.21 mg/kg	0.00492 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	27 mg/kg		27 mg/kg	0.0027 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.25	pH		9.25	pH	9.25 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0137 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0027%)

Classification of sample: BH-G02

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

Sample details

Sample name:	LoW Code:	
BH-G02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.35 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	10 mg/kg	1.462	14.616 mg/kg	0.00146 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	4 mg/kg	1.126	4.504 mg/kg	0.00045 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	11 mg/kg	1.56	17.158 mg/kg	0.0011 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	4.73 mg/kg	1.353	6.402 mg/kg	0.00064 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	1 mg/kg	1.5	1.5 mg/kg	0.00015 %	✓	
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	6 mg/kg	2.976	17.858 mg/kg	0.00179 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	38 mg/kg	1.968	74.799 mg/kg	0.00748 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	114 mg/kg		114 mg/kg	0.0114 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.8	pH		8.8	pH	8.8 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0263 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0114%)

Classification of sample: BH-G03A

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

Sample details

Sample name:	LoW Code:	
BH-G03A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	10 mg/kg	1.462	14.616 mg/kg	0.00146 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	4 mg/kg	1.126	4.504 mg/kg	0.00045 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	11 mg/kg	1.56	17.158 mg/kg	0.0011 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	4.56 mg/kg	1.353	6.172 mg/kg	0.000617 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	1 mg/kg	1.5	1.5 mg/kg	0.00015 %	✓	
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	7 mg/kg	2.976	20.834 mg/kg	0.00208 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	40 mg/kg	1.968	78.736 mg/kg	0.00787 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	37 mg/kg		37 mg/kg	0.0037 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.24	pH		9.24	pH	9.24 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0193 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0037%)

Classification of sample: BH-G04

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

Sample details

Sample name:	LoW Code:	
BH-G04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5	mg/kg	1.32	6.602	mg/kg	0.00066 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	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 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24	mg/kg	1.126	27.021	mg/kg	0.0027 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	32	mg/kg	1.56	49.914	mg/kg	0.0032 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2.53	mg/kg	1.353	3.424	mg/kg	0.000342 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2	mg/kg	1.5	3	mg/kg	0.0003 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12	mg/kg	2.976	35.715	mg/kg	0.00357 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		38	mg/kg	1.968	74.799	mg/kg	0.00748 %	✓
14	TPH (C6 to C40) petroleum group			TPH		402	mg/kg		402	mg/kg	0.0402 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.67	pH		9.67	pH	9.67 pH		
			PH									
21	naphthalene				6.66	mg/kg		6.66	mg/kg	0.000666 %	✓	
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
		205-917-1	208-96-8									
23	acenaphthene				5.92	mg/kg		5.92	mg/kg	0.000592 %	✓	
		201-469-6	83-32-9									
24	fluorene				4.04	mg/kg		4.04	mg/kg	0.000404 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				39.6	mg/kg		39.6	mg/kg	0.00396 %	✓	
		201-581-5	85-01-8									
26	anthracene				9.59	mg/kg		9.59	mg/kg	0.000959 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				33	mg/kg		33	mg/kg	0.0033 %	✓	
		205-912-4	206-44-0									
28	pyrene				26.4	mg/kg		26.4	mg/kg	0.00264 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				13.5	mg/kg		13.5	mg/kg	0.00135 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				11.6	mg/kg		11.6	mg/kg	0.00116 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				9.38	mg/kg		9.38	mg/kg	0.000938 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				3.27	mg/kg		3.27	mg/kg	0.000327 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				8.74	mg/kg		8.74	mg/kg	0.000874 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				4.19	mg/kg		4.19	mg/kg	0.000419 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.81	mg/kg		0.81	mg/kg	0.000081 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				3.38	mg/kg		3.38	mg/kg	0.000338 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0799 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0402%)

Classification of sample: BH-G04[2]

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

Sample details

Sample name:	LoW Code:	
BH-G04[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.8 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4	mg/kg	1.32	5.281	mg/kg	0.000528 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		48	mg/kg	1.126	54.043	mg/kg	0.0054 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	126	mg/kg	1.56	196.537	mg/kg	0.0126 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.38	mg/kg	1.353	0.514	mg/kg	0.0000514 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.976	62.502	mg/kg	0.00625 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		89	mg/kg	1.968	175.187	mg/kg	0.0175 %	✓
14	TPH (C6 to C40) petroleum group			TPH		100	mg/kg		100	mg/kg	0.01 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.15	pH		9.15	pH	9.15 pH		
			PH									
21	naphthalene				1.44	mg/kg		1.44	mg/kg	0.000144 %	✓	
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				1.24	mg/kg		1.24	mg/kg	0.000124 %	✓	
		201-469-6	83-32-9									
24	fluorene				1.01	mg/kg		1.01	mg/kg	0.000101 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				5.79	mg/kg		5.79	mg/kg	0.000579 %	✓	
		201-581-5	85-01-8									
26	anthracene				1.2	mg/kg		1.2	mg/kg	0.00012 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				3.79	mg/kg		3.79	mg/kg	0.000379 %	✓	
		205-912-4	206-44-0									
28	pyrene				2.91	mg/kg		2.91	mg/kg	0.000291 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				1.14	mg/kg		1.14	mg/kg	0.000114 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				1.12	mg/kg		1.12	mg/kg	0.000112 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.76	mg/kg		0.76	mg/kg	0.000076 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.73	mg/kg		0.73	mg/kg	0.000073 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.36	mg/kg		0.36	mg/kg	0.000036 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.31	mg/kg		0.31	mg/kg	0.000031 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0589 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.01%)

Classification of sample: BH-G06

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

Sample details

Sample name:	LoW Code:	
BH-G06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	10 mg/kg	1.462	14.616 mg/kg	0.00146 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	17 mg/kg	1.126	19.14 mg/kg	0.00191 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	18 mg/kg	1.56	28.077 mg/kg	0.0018 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	13 mg/kg	2.976	38.691 mg/kg	0.00387 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	38 mg/kg	1.968	74.799 mg/kg	0.00748 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	12 mg/kg		12 mg/kg	0.0012 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.65	pH		8.65	pH	8.65 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0197 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH-G07A

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

Sample details

Sample name:	LoW Code:	
BH-G07A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	1 mg/kg	1.32	1.32 mg/kg	0.000132 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.6 mg/kg	2.775	1.665 mg/kg	0.000167 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %	✓	
5	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 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	27 mg/kg	1.126	30.399 mg/kg	0.00304 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	37 mg/kg	1.56	57.713 mg/kg	0.0037 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	2.74 mg/kg	1.353	3.709 mg/kg	0.000371 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	12 mg/kg	2.976	35.715 mg/kg	0.00357 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	43 mg/kg	1.968	84.641 mg/kg	0.00846 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	7 mg/kg		7 mg/kg	0.0007 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.28	pH		9.28	pH	9.28 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0236 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0007%)

Classification of sample: BH-G09



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

Sample details

Sample name:	LoW Code:	
BH-G09	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.39 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	4 mg/kg	1.462	5.846 mg/kg	0.000585 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	2 mg/kg	1.126	2.252 mg/kg	0.000225 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	3 mg/kg	1.56	4.679 mg/kg	0.0003 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	5.54 mg/kg	1.353	7.498 mg/kg	0.00075 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	2 mg/kg	2.976	5.953 mg/kg	0.000595 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	21 mg/kg	1.968	41.336 mg/kg	0.00413 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	20 mg/kg		20 mg/kg	0.002 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.23	pH		9.23	pH	9.23 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0104 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH-G10

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

Sample details

Sample name:	LoW Code:	
BH-G10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				23	mg/kg	1.197	27.533	mg/kg	0.00275 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				51	mg/kg	1.32	67.337	mg/kg	0.00673 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1.1	mg/kg	2.775	3.053	mg/kg	0.000305 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				101	mg/kg	1.462	147.617	mg/kg	0.0148 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				83	mg/kg	1.126	93.449	mg/kg	0.00934 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	145	mg/kg	1.56	226.173	mg/kg	0.0145 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				1.05	mg/kg	1.353	1.421	mg/kg	0.000142 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				2	mg/kg	1.5	3	mg/kg	0.0003 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				23	mg/kg	2.976	68.454	mg/kg	0.00685 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				187	mg/kg	1.968	368.09	mg/kg	0.0368 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				152	mg/kg		152	mg/kg	0.0152 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				3 mg/kg	1.884	5.652 mg/kg	0.000565 %	✓	
	006-007-00-5									
20	pH				8.5 pH		8.5 pH	8.5 pH		
			PH							
21	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				0.01 mg/kg		0.01 mg/kg	0.000001 %	✓	
		201-469-6	83-32-9							
24	fluorene				0.01 mg/kg		0.01 mg/kg	0.000001 %	✓	
		201-695-5	86-73-7							
25	phenanthrene				0.13 mg/kg		0.13 mg/kg	0.000013 %	✓	
		201-581-5	85-01-8							
26	anthracene				0.03 mg/kg		0.03 mg/kg	0.000003 %	✓	
		204-371-1	120-12-7							
27	fluoranthene				0.17 mg/kg		0.17 mg/kg	0.000017 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.16 mg/kg		0.16 mg/kg	0.000016 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.13 mg/kg		0.13 mg/kg	0.000013 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.13 mg/kg		0.13 mg/kg	0.000013 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.11 mg/kg		0.11 mg/kg	0.000011 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				0.09 mg/kg		0.09 mg/kg	0.000009 %	✓	
		205-883-8	191-24-2							
37	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.109 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0152%)

Classification of sample: BH-G11

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

Sample details

Sample name:	LoW Code:	
BH-G11	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.4 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	6 mg/kg	1.462	8.769 mg/kg	0.000877 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	5 mg/kg	1.126	5.629 mg/kg	0.000563 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	4 mg/kg	1.56	6.239 mg/kg	0.0004 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	5.66 mg/kg	1.353	7.661 mg/kg	0.000766 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	2 mg/kg	1.5	3 mg/kg	0.0003 %	✓	
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	4 mg/kg	2.976	11.905 mg/kg	0.00119 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	25 mg/kg	1.968	49.21 mg/kg	0.00492 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	37 mg/kg		37 mg/kg	0.0037 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.15	pH		9.15	pH	9.15 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0145 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0037%)

Classification of sample: BH-N01



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

Sample details

Sample name:	LoW Code:	
BH-N01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10	mg/kg	1.462	14.616	mg/kg	0.00146 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4	mg/kg	1.126	4.504	mg/kg	0.00045 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	7	mg/kg	1.56	10.919	mg/kg	0.0007 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		5.38	mg/kg	1.353	7.282	mg/kg	0.000728 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		5	mg/kg	2.976	14.881	mg/kg	0.00149 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		24	mg/kg	1.968	47.242	mg/kg	0.00472 %	✓
14	TPH (C6 to C40) petroleum group			TPH		49	mg/kg		49	mg/kg	0.0049 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.29	pH		8.29	pH	8.29 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0163 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0049%)

Classification of sample: BH-N02

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

Sample details

Sample name:	LoW Code:	
BH-N02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22 mg/kg	1.462	32.154 mg/kg	0.00322 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				20 mg/kg	1.126	22.518 mg/kg	0.00225 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				26 mg/kg	2.976	77.383 mg/kg	0.00774 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				48 mg/kg	1.968	94.483 mg/kg	0.00945 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				4 mg/kg		4 mg/kg	0.0004 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.42	pH		8.42	pH	8.42 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0265 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0004%)

Classification of sample: BH-N02[2]

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

Sample details

Sample name:	LoW Code:	
BH-N02[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.9 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	21 mg/kg	1.462	30.693 mg/kg	0.00307 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	17 mg/kg	1.126	19.14 mg/kg	0.00191 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	12 mg/kg	1.56	18.718 mg/kg	0.0012 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	24 mg/kg	2.976	71.43 mg/kg	0.00714 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	43 mg/kg	1.968	84.641 mg/kg	0.00846 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	2 mg/kg		2 mg/kg	0.0002 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.14	pH		8.14	pH	8.14 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0239 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0002%)

Classification of sample: BH-N03

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

Sample details

Sample name:	LoW Code:	
BH-N03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide } 051-005-00-X 215-175-0 1309-64-4				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓	
3	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				1	mg/kg	2.775	2.775	mg/kg	0.000278 %	✓	
4	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				26	mg/kg	1.462	38	mg/kg	0.0038 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				26	mg/kg	1.126	29.273	mg/kg	0.00293 %	✓	
8	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	26	mg/kg	1.56	40.555	mg/kg	0.0026 %	✓	
9	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide } 042-001-00-9 215-204-7 1313-27-5				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				31	mg/kg	2.976	92.264	mg/kg	0.00923 %	✓	
12	selenium { nickel selenate } 028-031-00-5 239-125-2 15060-62-5				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				65	mg/kg	1.968	127.946	mg/kg	0.0128 %	✓	
14	TPH (C6 to C40) petroleum group TPH				3	mg/kg		3	mg/kg	0.0003 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.06	pH		7.06	pH	7.06 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.27	mg/kg		0.27	mg/kg	0.000027 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0339 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0003%)

Classification of sample: BH-N04

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

Sample details

Sample name:	BH-N04	LoW Code:	
Sample Depth:	0.2 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4	mg/kg	1.32	5.281	mg/kg	0.000528 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19	mg/kg	1.462	27.77	mg/kg	0.00278 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18	mg/kg	1.126	20.266	mg/kg	0.00203 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	32	mg/kg	1.56	49.914	mg/kg	0.0032 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20	mg/kg	2.976	59.525	mg/kg	0.00595 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		61	mg/kg	1.968	120.072	mg/kg	0.012 %	✓
14	TPH (C6 to C40) petroleum group			TPH		14	mg/kg		14	mg/kg	0.0014 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.63	pH		6.63	pH	6.63 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0297 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0014%)

Classification of sample: BH-N04A

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

Sample details

Sample name:	LoW Code:	
BH-N04A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20 mg/kg	1.462	29.231 mg/kg	0.00292 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				10 mg/kg	1.126	11.259 mg/kg	0.00113 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	10 mg/kg	1.56	15.598 mg/kg	0.001 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				20 mg/kg	2.976	59.525 mg/kg	0.00595 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				30 mg/kg	1.968	59.052 mg/kg	0.00591 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				27 mg/kg		27 mg/kg	0.0027 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.79	pH		5.79	pH	5.79 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0217 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0027%)

Classification of sample: BH-N05

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

Sample details

Sample name:	LoW Code:	
BH-N05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	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 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11	mg/kg	1.126	12.385	mg/kg	0.00124 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	2	mg/kg	1.56	3.12	mg/kg	0.0002 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.37	mg/kg	1.353	0.501	mg/kg	0.0000501 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	41.668	mg/kg	0.00417 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		22	mg/kg	1.968	43.305	mg/kg	0.00433 %	✓
14	TPH (C6 to C40) petroleum group			TPH		5	mg/kg		5	mg/kg	0.0005 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.87	pH		8.87	pH	8.87 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
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 Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0005%)

Classification of sample: BH-N05[2]

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

Sample details

Sample name:	LoW Code:	
BH-N05[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide } 051-005-00-X 215-175-0 1309-64-4				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓	
3	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %	✓	
4	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				1.6	mg/kg	1.142	1.828	mg/kg	0.000183 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				9	mg/kg	1.462	13.154	mg/kg	0.00132 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				26	mg/kg	1.126	29.273	mg/kg	0.00293 %	✓	
8	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	27	mg/kg	1.56	42.115	mg/kg	0.0027 %	✓	
9	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide } 042-001-00-9 215-204-7 1313-27-5				5	mg/kg	1.5	7.501	mg/kg	0.00075 %	✓	
11	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				10	mg/kg	2.976	29.763	mg/kg	0.00298 %	✓	
12	selenium { nickel selenate } 028-031-00-5 239-125-2 15060-62-5				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				52	mg/kg	1.968	102.357	mg/kg	0.0102 %	✓	
14	TPH (C6 to C40) petroleum group TPH				<12.02	mg/kg		<12.02	mg/kg	<0.0012 %		<LOD
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5										
20	pH				7.45 pH		7.45	pH	7.45 pH		
			PH								
21	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								
24	fluorene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0								
28	pyrene				<0.07 mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.06 mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.07 mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2								
37	phenol				<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.0242 %		

Key

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

Classification of sample: BH-N06

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

Sample details

Sample name:	BH-N06	LoW Code:	
Sample Depth:	0.5 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6	mg/kg	1.462	8.769	mg/kg	0.000877 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6	mg/kg	1.126	6.755	mg/kg	0.000676 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	42	mg/kg	1.56	65.512	mg/kg	0.0042 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		3.23	mg/kg	1.353	4.372	mg/kg	0.000437 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9	mg/kg	2.976	26.786	mg/kg	0.00268 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		86	mg/kg	1.968	169.282	mg/kg	0.0169 %	✓
14	TPH (C6 to C40) petroleum group			TPH		10	mg/kg		10	mg/kg	0.001 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.65	pH		8.65	pH	8.65 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0287 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.001%)

Classification of sample: BH-N06A



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

Sample details

Sample name:	LoW Code:	
BH-N06A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11 mg/kg	1.462	16.077 mg/kg	0.00161 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				7 mg/kg	1.126	7.881 mg/kg	0.000788 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	7 mg/kg	1.56	10.919 mg/kg	0.0007 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				1.13 mg/kg	1.353	1.529 mg/kg	0.000153 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				11 mg/kg	2.976	32.739 mg/kg	0.00327 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				31 mg/kg	1.968	61.02 mg/kg	0.0061 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				7 mg/kg		7 mg/kg	0.0007 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.13	pH		9.13	pH	9.13 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0152 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0007%)

Classification of sample: BH-N06B

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

Sample details

Sample name:	LoW Code:	
BH-N06B	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.7	mg/kg	2.775	1.943	mg/kg	0.000194 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.126	11.259	mg/kg	0.00113 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16	mg/kg	1.56	24.957	mg/kg	0.0016 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		4.59	mg/kg	1.353	6.213	mg/kg	0.000621 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	41.668	mg/kg	0.00417 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		54	mg/kg	1.968	106.293	mg/kg	0.0106 %	✓
14	TPH (C6 to C40) petroleum group			TPH		18	mg/kg		18	mg/kg	0.0018 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.45	pH		9.45	pH	9.45 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0245 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0018%)

Classification of sample: BH-N06C

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

Sample details

Sample name:	LoW Code:	
BH-N06C	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				14	mg/kg	1.32	18.485	mg/kg	0.00185 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19	mg/kg	1.462	27.77	mg/kg	0.00278 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				62	mg/kg	1.126	69.805	mg/kg	0.00698 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	108	mg/kg	1.56	168.46	mg/kg	0.0108 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				2	mg/kg	1.5	3	mg/kg	0.0003 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				23	mg/kg	2.976	68.454	mg/kg	0.00685 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				99	mg/kg	1.968	194.871	mg/kg	0.0195 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				79	mg/kg		79	mg/kg	0.0079 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20	pH PH				8.47	pH		8.47	pH	8.47 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
22	acenaphthylene 205-917-1 208-96-8				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
24	fluorene 201-695-5 86-73-7				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
25	phenanthrene 201-581-5 85-01-8				0.62	mg/kg		0.62	mg/kg	0.000062 %	✓	
26	anthracene 204-371-1 120-12-7				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
27	fluoranthene 205-912-4 206-44-0				0.93	mg/kg		0.93	mg/kg	0.000093 %	✓	
28	pyrene 204-927-3 129-00-0				0.88	mg/kg		0.88	mg/kg	0.000088 %	✓	
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				0.54	mg/kg		0.54	mg/kg	0.000054 %	✓	
30	chrysene 601-048-00-0 205-923-4 218-01-9				0.59	mg/kg		0.59	mg/kg	0.000059 %	✓	
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.56	mg/kg		0.56	mg/kg	0.000056 %	✓	
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.52	mg/kg		0.52	mg/kg	0.000052 %	✓	
34	indeno[123-cd]pyrene 205-893-2 193-39-5				0.27	mg/kg		0.27	mg/kg	0.000027 %	✓	
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:										0.0591 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0079%)

Classification of sample: BH-N07



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

Sample details

Sample name:	LoW Code:	
BH-N07	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	7 mg/kg	1.32	9.242 mg/kg	0.000924 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	10 mg/kg	1.462	14.616 mg/kg	0.00146 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	33 mg/kg	1.126	37.154 mg/kg	0.00372 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	56 mg/kg	1.56	87.35 mg/kg	0.0056 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	10 mg/kg	2.976	29.763 mg/kg	0.00298 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	57 mg/kg	1.968	112.199 mg/kg	0.0112 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	174 mg/kg		174 mg/kg	0.0174 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.22	pH		7.22	pH	7.22 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.99	mg/kg		0.99	mg/kg	0.000099 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				1.64	mg/kg		1.64	mg/kg	0.000164 %	✓	
		205-912-4	206-44-0									
28	pyrene				1.52	mg/kg		1.52	mg/kg	0.000152 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.83	mg/kg		0.83	mg/kg	0.000083 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.9	mg/kg		0.9	mg/kg	0.00009 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.82	mg/kg		0.82	mg/kg	0.000082 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.53	mg/kg		0.53	mg/kg	0.000053 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.41	mg/kg		0.41	mg/kg	0.000041 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0459 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0174%)

Classification of sample: BH-N07[2]

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

Sample details

Sample name:	LoW Code:	
BH-N07[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	5 mg/kg	1.32	6.602 mg/kg	0.00066 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	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 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	12 mg/kg	1.126	13.511 mg/kg	0.00135 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	11 mg/kg	1.56	17.158 mg/kg	0.0011 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	9 mg/kg	2.976	26.786 mg/kg	0.00268 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	33 mg/kg	1.968	64.957 mg/kg	0.0065 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	18 mg/kg		18 mg/kg	0.0018 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.92	pH		6.92	pH	6.92 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0168 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0018%)

Classification of sample: BH-N08

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

Sample details

Sample name:	BH-N08	LoW Code:	
Sample Depth:	0.2 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20	mg/kg	1.462	29.231	mg/kg	0.00292 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		36	mg/kg	1.126	40.532	mg/kg	0.00405 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	78	mg/kg	1.56	121.666	mg/kg	0.0078 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1	mg/kg	1.5	1.5	mg/kg	0.00015 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.976	50.597	mg/kg	0.00506 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		74	mg/kg	1.968	145.661	mg/kg	0.0146 %	✓
14	TPH (C6 to C40) petroleum group			TPH		61	mg/kg		61	mg/kg	0.0061 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.85	pH		6.85	pH	6.85 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.44	mg/kg		0.44	mg/kg	0.000044 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.41	mg/kg		0.41	mg/kg	0.000041 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.33	mg/kg		0.33	mg/kg	0.000033 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.25	mg/kg		0.25	mg/kg	0.000025 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.044 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0061%)

Classification of sample: BH-N08[2]



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

Sample details

Sample name:	LoW Code:	
BH-N08[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		

Hazard properties

None identified





Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.5 mg/kg	2.775	1.388 mg/kg	0.000139 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19 mg/kg	1.462	27.77 mg/kg	0.00278 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				15 mg/kg	1.126	16.888 mg/kg	0.00169 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	10 mg/kg	1.56	15.598 mg/kg	0.001 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				22 mg/kg	2.976	65.478 mg/kg	0.00655 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				45 mg/kg	1.968	88.578 mg/kg	0.00886 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				<12.02 mg/kg		<12.02 mg/kg	<0.0012 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				8.58 pH		8.58 pH	8.58 pH			
			PH								
21	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
37	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.0239 %		

Key

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

Classification of sample: BH-N09



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

Sample details

Sample name:	LoW Code:	
BH-N09	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	24.846 mg/kg	0.00248 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				7 mg/kg	1.126	7.881 mg/kg	0.000788 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	13 mg/kg	1.56	20.278 mg/kg	0.0013 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				6 mg/kg	2.976	17.858 mg/kg	0.00179 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				16 mg/kg	1.968	31.494 mg/kg	0.00315 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				46 mg/kg		46 mg/kg	0.0046 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6	pH		6	pH	6pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.016 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0046%)

Classification of sample: BH-N10



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

Sample details

Sample name:	BH-N10	LoW Code:	
Sample Depth:	0.5 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	6 mg/kg	1.462	8.769 mg/kg	0.000877 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	5 mg/kg	1.126	5.629 mg/kg	0.000563 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	5 mg/kg	1.56	7.799 mg/kg	0.0005 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	5 mg/kg	2.976	14.881 mg/kg	0.00149 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	6 mg/kg	1.968	11.81 mg/kg	0.00118 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	50 mg/kg		50 mg/kg	0.005 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.68	pH		5.68	pH	5.68 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
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 Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration 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: BH-N10[2]

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

Sample details

Sample name:	LoW Code:	
BH-N10[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13 mg/kg	1.462	19 mg/kg	0.0019 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				17 mg/kg	1.126	19.14 mg/kg	0.00191 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	10 mg/kg	1.56	15.598 mg/kg	0.001 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				12 mg/kg	2.976	35.715 mg/kg	0.00357 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				25 mg/kg	1.968	49.21 mg/kg	0.00492 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				52 mg/kg		52 mg/kg	0.0052 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.19	pH		5.19	pH	5.19 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0204 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0052%)

Classification of sample: BH-N11

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

Sample details

Sample name:	BH-N11	LoW Code:	
Sample Depth:	0.25 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20	mg/kg	1.32	26.407	mg/kg	0.00264 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.7	mg/kg	1.142	1.942	mg/kg	0.000194 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		55	mg/kg	1.126	61.924	mg/kg	0.00619 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	138	mg/kg	1.56	215.254	mg/kg	0.0138 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.28	mg/kg	1.353	0.379	mg/kg	0.0000379 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2	mg/kg	1.5	3	mg/kg	0.0003 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	53.573	mg/kg	0.00536 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		127	mg/kg	1.968	249.986	mg/kg	0.025 %	✓
14	TPH (C6 to C40) petroleum group			TPH		159	mg/kg		159	mg/kg	0.0159 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.87	pH		5.87	pH	5.87 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0738 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0159%)

Classification of sample: BH-N12A

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

Sample details

Sample name:	LoW Code:	
BH-N12A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14	mg/kg	1.462	20.462	mg/kg	0.00205 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8	mg/kg	1.126	9.007	mg/kg	0.000901 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	3	mg/kg	1.56	4.679	mg/kg	0.0003 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2.63	mg/kg	1.353	3.56	mg/kg	0.000356 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19	mg/kg	2.976	56.549	mg/kg	0.00565 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		32	mg/kg	1.968	62.989	mg/kg	0.0063 %	✓
14	TPH (C6 to C40) petroleum group			TPH		9	mg/kg		9	mg/kg	0.0009 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.37	pH		9.37	pH	9.37 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0183 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0009%)

Classification of sample: BH-N13

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

Sample details

Sample name:	LoW Code:	
BH-N13	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	5 mg/kg	1.462	7.308 mg/kg	0.000731 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	1 mg/kg	1.126	1.126 mg/kg	0.000113 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1 mg/kg	1.56	1.56 mg/kg	0.0001 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	2.15 mg/kg	1.353	2.91 mg/kg	0.000291 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	4 mg/kg	2.976	11.905 mg/kg	0.00119 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	17 mg/kg	1.968	33.463 mg/kg	0.00335 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	43 mg/kg		43 mg/kg	0.0043 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.3	pH		9.3	pH	9.3 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0119 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH-N14



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

Sample details

Sample name:	BH-N14	LoW Code:	
Sample Depth:	0.5 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23	mg/kg	1.462	33.616	mg/kg	0.00336 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21	mg/kg	1.126	23.644	mg/kg	0.00236 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11	mg/kg	1.56	17.158	mg/kg	0.0011 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31	mg/kg	2.976	92.264	mg/kg	0.00923 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		53	mg/kg	1.968	104.325	mg/kg	0.0104 %	✓
14	TPH (C6 to C40) petroleum group			TPH		4	mg/kg		4	mg/kg	0.0004 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.56	pH		7.56	pH	7.56 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.029 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0004%)

Classification of sample: BH-N14[2]

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

Sample details

Sample name:	LoW Code:	
BH-N14[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6	mg/kg	1.32	7.922	mg/kg	0.000792 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20	mg/kg	1.462	29.231	mg/kg	0.00292 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20	mg/kg	1.126	22.518	mg/kg	0.00225 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13	mg/kg	1.56	20.278	mg/kg	0.0013 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.976	65.478	mg/kg	0.00655 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		42	mg/kg	1.968	82.673	mg/kg	0.00827 %	✓
14	TPH (C6 to C40) petroleum group			TPH		<12.02	mg/kg		<12.02	mg/kg	<0.0012 %	<LOD
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				7.39 pH		7.39 pH	7.39 pH			
			PH								
21	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
37	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.0252 %		

Key

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

Classification of sample: BH-N15

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

Sample details

Sample name:	BH-N15	LoW Code:	
Sample Depth:	0.5 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4	mg/kg	1.32	5.281	mg/kg	0.000528 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10	mg/kg	1.462	14.616	mg/kg	0.00146 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13	mg/kg	1.126	14.637	mg/kg	0.00146 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16	mg/kg	1.56	24.957	mg/kg	0.0016 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9	mg/kg	2.976	26.786	mg/kg	0.00268 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		34	mg/kg	1.968	66.925	mg/kg	0.00669 %	✓
14	TPH (C6 to C40) petroleum group			TPH		<12.02	mg/kg		<12.02	mg/kg	<0.0012 %	<LOD
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20	pH PH				5.01	pH		5.01	pH	5.01 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
24	fluorene 201-695-5 86-73-7				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
25	phenanthrene 201-581-5 85-01-8				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
26	anthracene 204-371-1 120-12-7				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
27	fluoranthene 205-912-4 206-44-0				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	pyrene 204-927-3 129-00-0				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
30	chrysene 601-048-00-0 205-923-4 218-01-9				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
34	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:										0.0174 %		

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

Classification of sample: BH-N16

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

Sample details

Sample name:	BH-N16	LoW Code:	
Sample Depth:	0.25 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21	mg/kg	1.32	27.727	mg/kg	0.00277 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1	mg/kg	2.775	2.775	mg/kg	0.000278 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2.4	mg/kg	1.142	2.742	mg/kg	0.000274 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20	mg/kg	1.462	29.231	mg/kg	0.00292 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		53	mg/kg	1.126	59.672	mg/kg	0.00597 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	115	mg/kg	1.56	179.379	mg/kg	0.0115 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.25	mg/kg	1.353	0.338	mg/kg	0.0000338 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		5	mg/kg	1.5	7.501	mg/kg	0.00075 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	53.573	mg/kg	0.00536 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		149	mg/kg	1.968	293.291	mg/kg	0.0293 %	✓
14	TPH (C6 to C40) petroleum group			TPH		85	mg/kg		85	mg/kg	0.0085 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.47	pH		6.47	pH	6.47 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		205-917-1	208-96-8									
23	acenaphthene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.41	mg/kg		0.41	mg/kg	0.000041 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.86	mg/kg		0.86	mg/kg	0.000086 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.85	mg/kg		0.85	mg/kg	0.000085 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.49	mg/kg		0.49	mg/kg	0.000049 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.52	mg/kg		0.52	mg/kg	0.000052 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.59	mg/kg		0.59	mg/kg	0.000059 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.52	mg/kg		0.52	mg/kg	0.000052 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.33	mg/kg		0.33	mg/kg	0.000033 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.33	mg/kg		0.33	mg/kg	0.000033 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0695 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0085%)

Classification of sample: BH-N17

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

Sample details

Sample name:	BH-N17	LoW Code:	
Sample Depth:	0.2 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4	mg/kg	1.32	5.281	mg/kg	0.000528 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23	mg/kg	1.126	25.895	mg/kg	0.00259 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	34	mg/kg	1.56	53.034	mg/kg	0.0034 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.28	mg/kg	1.353	0.379	mg/kg	0.0000379 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24	mg/kg	2.976	71.43	mg/kg	0.00714 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		66	mg/kg	1.968	129.914	mg/kg	0.013 %	✓
14	TPH (C6 to C40) petroleum group			TPH		117	mg/kg		117	mg/kg	0.0117 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.53	pH		8.53	pH	8.53 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0428 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0117%)

Classification of sample: BH-N17[2]



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

Sample details

Sample name:	LoW Code:	
BH-N17[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5	mg/kg	1.32	6.602	mg/kg	0.00066 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	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 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18	mg/kg	1.126	20.266	mg/kg	0.00203 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13	mg/kg	1.56	20.278	mg/kg	0.0013 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.976	47.62	mg/kg	0.00476 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		47	mg/kg	1.968	92.515	mg/kg	0.00925 %	✓
14	TPH (C6 to C40) petroleum group			TPH		33	mg/kg		33	mg/kg	0.0033 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.27	pH		7.27	pH	7.27 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.025 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0033%)

Classification of sample: BH-N17OB

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

Sample details

Sample name:	LoW Code:	
BH-N17OB	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11 mg/kg	1.462	16.077 mg/kg	0.00161 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	34.903 mg/kg	0.00349 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	56 mg/kg	1.56	87.35 mg/kg	0.0056 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				10 mg/kg	2.976	29.763 mg/kg	0.00298 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				54 mg/kg	1.968	106.293 mg/kg	0.0106 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				82 mg/kg		82 mg/kg	0.0082 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.9	pH		6.9	pH	6.9 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.21	mg/kg		0.21	mg/kg	0.000021 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.25	mg/kg		0.25	mg/kg	0.000025 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0352 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0082%)

Classification of sample: BH-N18

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

Sample details

Sample name:	BH-N18	LoW Code:	
Sample Depth:	0.25 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		1	mg/kg	1.32	1.32	mg/kg	0.000132 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.5	mg/kg	2.775	1.388	mg/kg	0.000139 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15	mg/kg	1.462	21.923	mg/kg	0.00219 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25	mg/kg	1.126	28.147	mg/kg	0.00281 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22	mg/kg	1.56	34.316	mg/kg	0.0022 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.976	62.502	mg/kg	0.00625 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		68	mg/kg	1.968	133.851	mg/kg	0.0134 %	✓
14	TPH (C6 to C40) petroleum group			TPH		30	mg/kg		30	mg/kg	0.003 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.29	pH		8.29	pH	8.29 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0317 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.003%)

Classification of sample: BH-N18[2]

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

Sample details

Sample name:	LoW Code:	
BH-N18[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6	mg/kg	1.32	7.922	mg/kg	0.000792 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1	mg/kg	2.775	2.775	mg/kg	0.000278 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		7.6	mg/kg	1.142	8.682	mg/kg	0.000868 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30	mg/kg	1.462	43.847	mg/kg	0.00438 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22	mg/kg	1.126	24.77	mg/kg	0.00248 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11	mg/kg	1.56	17.158	mg/kg	0.0011 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32	mg/kg	2.976	95.24	mg/kg	0.00952 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		1090	mg/kg	1.968	2145.552	mg/kg	0.215 %	✓
14	TPH (C6 to C40) petroleum group			TPH		11	mg/kg		11	mg/kg	0.0011 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20	pH PH				8.43	pH		8.43	pH	8.43 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
24	fluorene 201-695-5 86-73-7				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
25	phenanthrene 201-581-5 85-01-8				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
26	anthracene 204-371-1 120-12-7				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
27	fluoranthene 205-912-4 206-44-0				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	pyrene 204-927-3 129-00-0				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
30	chrysene 601-048-00-0 205-923-4 218-01-9				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
34	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:										0.237 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH-N180B



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

Sample details

Sample name:	BH-N180B	LoW Code:	
Sample Depth:	0.2 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.5	mg/kg	2.775	1.388	mg/kg	0.000139 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	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 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22	mg/kg	1.126	24.77	mg/kg	0.00248 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	35	mg/kg	1.56	54.594	mg/kg	0.0035 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	41.668	mg/kg	0.00417 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		50	mg/kg	1.968	98.42	mg/kg	0.00984 %	✓
14	TPH (C6 to C40) petroleum group			TPH		99	mg/kg		99	mg/kg	0.0099 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20	pH PH				7.4	pH		7.4	pH	7.4 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
24	fluorene 201-695-5 86-73-7				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
25	phenanthrene 201-581-5 85-01-8				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
26	anthracene 204-371-1 120-12-7				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
27	fluoranthene 205-912-4 206-44-0				0.57	mg/kg		0.57	mg/kg	0.000057 %	✓	
28	pyrene 204-927-3 129-00-0				0.53	mg/kg		0.53	mg/kg	0.000053 %	✓	
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				0.3	mg/kg		0.3	mg/kg	0.00003 %	✓	
30	chrysene 601-048-00-0 205-923-4 218-01-9				0.36	mg/kg		0.36	mg/kg	0.000036 %	✓	
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.38	mg/kg		0.38	mg/kg	0.000038 %	✓	
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
34	indeno[123-cd]pyrene 205-893-2 193-39-5				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:										0.0341 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0099%)

Classification of sample: BH-N19

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

Sample details

Sample name:	LoW Code:	
BH-N19	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		

Hazard properties

None identified


Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5	mg/kg	1.32	6.602	mg/kg	0.00066 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		33	mg/kg	1.126	37.154	mg/kg	0.00372 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	39	mg/kg	1.56	60.833	mg/kg	0.0039 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.36	mg/kg	1.353	0.487	mg/kg	0.0000487 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1	mg/kg	1.5	1.5	mg/kg	0.00015 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		33	mg/kg	2.976	98.217	mg/kg	0.00982 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		57	mg/kg	1.968	112.199	mg/kg	0.0112 %	✓
14	TPH (C6 to C40) petroleum group			TPH		757	mg/kg		757	mg/kg	0.0757 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.85	pH		7.85	pH	7.85 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				0.35	mg/kg		0.35	mg/kg	0.000035 %	✓	
		205-917-1	208-96-8									
23	acenaphthene				0.73	mg/kg		0.73	mg/kg	0.000073 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.42	mg/kg		0.42	mg/kg	0.000042 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				6.72	mg/kg		6.72	mg/kg	0.000672 %	✓	
		201-581-5	85-01-8									
26	anthracene				2.24	mg/kg		2.24	mg/kg	0.000224 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				37	mg/kg		37	mg/kg	0.0037 %	✓	
		205-912-4	206-44-0									
28	pyrene				37	mg/kg		37	mg/kg	0.0037 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				24	mg/kg		24	mg/kg	0.0024 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				28.8	mg/kg		28.8	mg/kg	0.00288 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				25	mg/kg		25	mg/kg	0.0025 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				11.7	mg/kg		11.7	mg/kg	0.00117 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				24	mg/kg		24	mg/kg	0.0024 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				16.4	mg/kg		16.4	mg/kg	0.00164 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				3.03	mg/kg		3.03	mg/kg	0.000303 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				14.4	mg/kg		14.4	mg/kg	0.00144 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.132 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0757%)

Classification of sample: BH-N20

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

Sample details

Sample name:	LoW Code:	
BH-N20	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		29	mg/kg	1.32	38.289	mg/kg	0.00383 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1	mg/kg	2.775	3.053	mg/kg	0.000305 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2	mg/kg	1.142	2.285	mg/kg	0.000228 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19	mg/kg	1.462	27.77	mg/kg	0.00278 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		61	mg/kg	1.126	68.679	mg/kg	0.00687 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	143	mg/kg	1.56	223.054	mg/kg	0.0143 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		4	mg/kg	1.5	6.001	mg/kg	0.0006 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.976	50.597	mg/kg	0.00506 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		139	mg/kg	1.968	273.607	mg/kg	0.0274 %	✓
14	TPH (C6 to C40) petroleum group			TPH		114	mg/kg		114	mg/kg	0.0114 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.52	pH		6.52	pH	6.52 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		205-917-1	208-96-8									
23	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.53	mg/kg		0.53	mg/kg	0.000053 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.95	mg/kg		0.95	mg/kg	0.000095 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.93	mg/kg		0.93	mg/kg	0.000093 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.53	mg/kg		0.53	mg/kg	0.000053 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.59	mg/kg		0.59	mg/kg	0.000059 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.64	mg/kg		0.64	mg/kg	0.000064 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.54	mg/kg		0.54	mg/kg	0.000054 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.31	mg/kg		0.31	mg/kg	0.000031 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0746 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0114%)

Classification of sample: BH-N20[2]

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

Sample details

Sample name:	LoW Code:	
BH-N20[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	17.164	mg/kg	0.00172 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.2	mg/kg	1.142	1.371	mg/kg	0.000137 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14	mg/kg	1.462	20.462	mg/kg	0.00205 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38	mg/kg	1.126	42.784	mg/kg	0.00428 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	71	mg/kg	1.56	110.747	mg/kg	0.0071 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2	mg/kg	1.5	3	mg/kg	0.0003 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.976	47.62	mg/kg	0.00476 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1	mg/kg	2.554	2.554	mg/kg	0.000255 %	✓
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		73	mg/kg	1.968	143.693	mg/kg	0.0144 %	✓
14	TPH (C6 to C40) petroleum group			TPH		355	mg/kg		355	mg/kg	0.0355 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.15	pH		6.15	pH	6.15 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0718 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0355%)

Classification of sample: BH-N21

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

Sample details

Sample name:	LoW Code:	
BH-N21	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21	mg/kg	1.32	27.727	mg/kg	0.00277 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.5	mg/kg	1.142	1.713	mg/kg	0.000171 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		50	mg/kg	1.126	56.294	mg/kg	0.00563 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	149	mg/kg	1.56	232.412	mg/kg	0.0149 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.28	mg/kg	1.353	0.379	mg/kg	0.0000379 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2	mg/kg	1.5	3	mg/kg	0.0003 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.976	47.62	mg/kg	0.00476 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		105	mg/kg	1.968	206.682	mg/kg	0.0207 %	✓
14	TPH (C6 to C40) petroleum group			TPH		103	mg/kg		103	mg/kg	0.0103 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.79	pH		5.79	pH	5.79 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.37	mg/kg		0.37	mg/kg	0.000037 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.69	mg/kg		0.69	mg/kg	0.000069 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.67	mg/kg		0.67	mg/kg	0.000067 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.37	mg/kg		0.37	mg/kg	0.000037 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.46	mg/kg		0.46	mg/kg	0.000046 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.45	mg/kg		0.45	mg/kg	0.000045 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.38	mg/kg		0.38	mg/kg	0.000038 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0638 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BHNO03A

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

Sample details

Sample name:	BHNO03A	LoW Code:	
Sample Depth:	0.25 m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	13% (dry weight correction)	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.9	mg/kg	1.197	2.013	mg/kg	0.000201 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				5.3	mg/kg	1.32	6.193	mg/kg	0.000619 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.61	mg/kg	2.775	1.498	mg/kg	0.00015 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.303	mg/kg	0.0000303 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	16.814	mg/kg	0.00168 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	19.927	mg/kg	0.00199 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	18	mg/kg	1.56	24.847	mg/kg	0.00159 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.42	mg/kg	1.5	0.558	mg/kg	0.0000558 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				20	mg/kg	2.976	52.677	mg/kg	0.00527 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				52	mg/kg	1.968	90.581	mg/kg	0.00906 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.1 pH		8.1 pH	8.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.08 mg/kg		0.0708 mg/kg	0.00000708 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.08 mg/kg		0.0708 mg/kg	0.00000708 %	✓	
28	pyrene	204-927-3	129-00-0		0.07 mg/kg		0.0619 mg/kg	0.00000619 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.05 mg/kg		0.0442 mg/kg	0.00000442 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.05 mg/kg		0.0442 mg/kg	0.00000442 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.05 mg/kg		0.0442 mg/kg	0.00000442 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0274 %		

Key

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

Classification of sample: BHNO03A[2]

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

Sample details

Sample name:	LoW Code:	
BHNO03A[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
14% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 14% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.4	mg/kg	1.197	2.52	mg/kg	0.000252 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				7.2	mg/kg	1.32	8.339	mg/kg	0.000834 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.71	mg/kg	2.775	1.729	mg/kg	0.000173 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17	mg/kg	1.462	21.795	mg/kg	0.00218 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				23	mg/kg	1.126	22.715	mg/kg	0.00227 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	20	mg/kg	1.56	27.365	mg/kg	0.00175 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.51	mg/kg	1.5	0.671	mg/kg	0.0000671 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				20	mg/kg	2.976	52.215	mg/kg	0.00522 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				52	mg/kg	1.968	89.786	mg/kg	0.00898 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				5.9	mg/kg		5.175	mg/kg	0.000518 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.9 pH		7.9 pH	7.9 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene 201-695-5		86-73-7		0.05 mg/kg		0.0439 mg/kg	0.00000439 %	✓	
25	phenanthrene 201-581-5		85-01-8		0.22 mg/kg		0.193 mg/kg	0.0000193 %	✓	
26	anthracene 204-371-1		120-12-7		0.07 mg/kg		0.0614 mg/kg	0.00000614 %	✓	
27	fluoranthene 205-912-4		206-44-0		0.39 mg/kg		0.342 mg/kg	0.0000342 %	✓	
28	pyrene 204-927-3		129-00-0		0.37 mg/kg		0.325 mg/kg	0.0000325 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.21 mg/kg		0.184 mg/kg	0.0000184 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.22 mg/kg		0.193 mg/kg	0.0000193 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.17 mg/kg		0.149 mg/kg	0.0000149 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.11 mg/kg		0.0965 mg/kg	0.00000965 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.15 mg/kg		0.132 mg/kg	0.0000132 %	✓	
34	indeno[123-cd]pyrene 205-893-2		193-39-5		0.07 mg/kg		0.0614 mg/kg	0.00000614 %	✓	
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		0.12 mg/kg		0.105 mg/kg	0.0000105 %	✓	
Total:								0.0232 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00051%)

Classification of sample: BH-P02

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

Sample details

Sample name:	LoW Code:	
BH-P02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.1	mg/kg	1.142	1.257	mg/kg	0.000126 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		15	mg/kg	1.462	21.923	mg/kg	0.00219 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		28	mg/kg	1.126	31.525	mg/kg	0.00315 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	53	mg/kg	1.56	82.67	mg/kg	0.0053 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	41.668	mg/kg	0.00417 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		64	mg/kg	1.968	125.977	mg/kg	0.0126 %	✓
14	TPH (C6 to C40) petroleum group			TPH		31	mg/kg		31	mg/kg	0.0031 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.57	pH		7.57	pH	7.57 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.21	mg/kg		0.21	mg/kg	0.000021 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.42	mg/kg		0.42	mg/kg	0.000042 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.39	mg/kg		0.39	mg/kg	0.000039 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.27	mg/kg		0.27	mg/kg	0.000027 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.034 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0031%)

Classification of sample: BH-P02[2]

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

Sample details

Sample name:	LoW Code:	
BH-P02[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3	mg/kg	1.32	3.961	mg/kg	0.000396 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9	mg/kg	1.462	13.154	mg/kg	0.00132 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9	mg/kg	1.126	10.133	mg/kg	0.00101 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	5	mg/kg	1.56	7.799	mg/kg	0.0005 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11	mg/kg	2.976	32.739	mg/kg	0.00327 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		23	mg/kg	1.968	45.273	mg/kg	0.00453 %	✓
14	TPH (C6 to C40) petroleum group			TPH		<12.02	mg/kg		<12.02	mg/kg	<0.0012 %	<LOD
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg		<0.000188 %		<LOD
20	pH PH				4.48 pH		4.48 pH		4.48 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
24	fluorene 201-695-5 86-73-7				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
25	phenanthrene 201-581-5 85-01-8				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
26	anthracene 204-371-1 120-12-7				<0.02 mg/kg		<0.02 mg/kg		<0.000002 %		<LOD
27	fluoranthene 205-912-4 206-44-0				<0.08 mg/kg		<0.08 mg/kg		<0.000008 %		<LOD
28	pyrene 204-927-3 129-00-0				<0.07 mg/kg		<0.07 mg/kg		<0.000007 %		<LOD
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
30	chrysene 601-048-00-0 205-923-4 218-01-9				<0.06 mg/kg		<0.06 mg/kg		<0.000006 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07 mg/kg		<0.07 mg/kg		<0.000007 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
34	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2 mg/kg		<0.2 mg/kg		<0.00002 %		<LOD
Total:									0.014 %		

Key

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

Classification of sample: BH-P03

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

Sample details

Sample name:	LoW Code:	
BH-P03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified





Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide } 051-005-00-X 215-175-0 1309-64-4				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				4	mg/kg	1.32	5.281	mg/kg	0.000528 %	✓	
3	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				1	mg/kg	1.142	1.142	mg/kg	0.000114 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				12	mg/kg	1.462	17.539	mg/kg	0.00175 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				18	mg/kg	1.126	20.266	mg/kg	0.00203 %	✓	
8	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	21	mg/kg	1.56	32.756	mg/kg	0.0021 %	✓	
9	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide } 042-001-00-9 215-204-7 1313-27-5				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				16	mg/kg	2.976	47.62	mg/kg	0.00476 %	✓	
12	selenium { nickel selenate } 028-031-00-5 239-125-2 15060-62-5				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				45	mg/kg	1.968	88.578	mg/kg	0.00886 %	✓	
14	TPH (C6 to C40) petroleum group TPH				16	mg/kg		16	mg/kg	0.0016 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.18	pH		8.18	pH	8.18 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.25	mg/kg		0.25	mg/kg	0.000025 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0235 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0016%)

Classification of sample: BH-P03[2]

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

Sample details

Sample name:	LoW Code:	
BH-P03[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3	mg/kg	1.32	3.961	mg/kg	0.000396 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10	mg/kg	1.462	14.616	mg/kg	0.00146 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13	mg/kg	1.126	14.637	mg/kg	0.00146 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13	mg/kg	1.56	20.278	mg/kg	0.0013 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	41.668	mg/kg	0.00417 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		40	mg/kg	1.968	78.736	mg/kg	0.00787 %	✓
14	TPH (C6 to C40) petroleum group			TPH		8	mg/kg		8	mg/kg	0.0008 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.58	pH		7.58	pH	7.58 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0193 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0008%)

Classification of sample: BH-P10A

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

Sample details

Sample name:	LoW Code:	
BH-P10A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6	mg/kg	1.32	7.922	mg/kg	0.000792 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25	mg/kg	1.126	28.147	mg/kg	0.00281 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	53	mg/kg	1.56	82.67	mg/kg	0.0053 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.976	65.478	mg/kg	0.00655 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		61	mg/kg	1.968	120.072	mg/kg	0.012 %	✓
14	TPH (C6 to C40) petroleum group			TPH		30	mg/kg		30	mg/kg	0.003 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.47	pH		7.47	pH	7.47 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.035 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.003%)

Classification of sample: BH-P11



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

Sample details

Sample name:	LoW Code:	
BH-P11	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4	mg/kg	1.32	5.281	mg/kg	0.000528 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.7	mg/kg	2.775	1.943	mg/kg	0.000194 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21	mg/kg	1.126	23.644	mg/kg	0.00236 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23	mg/kg	1.56	35.876	mg/kg	0.0023 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.976	62.502	mg/kg	0.00625 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		48	mg/kg	1.968	94.483	mg/kg	0.00945 %	✓
14	TPH (C6 to C40) petroleum group			TPH		18	mg/kg		18	mg/kg	0.0018 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.93	pH		7.93	pH	7.93 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0269 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0018%)

Classification of sample: BH-S01

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

Sample details

Sample name:	LoW Code:	
BH-S01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14	mg/kg	1.126	15.762	mg/kg	0.00158 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	3	mg/kg	1.56	4.679	mg/kg	0.0003 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24	mg/kg	2.976	71.43	mg/kg	0.00714 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		35	mg/kg	1.968	68.894	mg/kg	0.00689 %	✓
14	TPH (C6 to C40) petroleum group			TPH		<12.02	mg/kg		<12.02	mg/kg	<0.0012 %	<LOD
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
20	pH PH				8.92 pH		8.92 pH	8.92 pH			
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
22	acenaphthylene 205-917-1 208-96-8				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
23	acenaphthene 201-469-6 83-32-9				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
24	fluorene 201-695-5 86-73-7				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
25	phenanthrene 201-581-5 85-01-8				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
26	anthracene 204-371-1 120-12-7				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
27	fluoranthene 205-912-4 206-44-0				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD	
28	pyrene 204-927-3 129-00-0				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD	
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
30	chrysene 601-048-00-0 205-923-4 218-01-9				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD	
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
34	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD	
Total:									0.0215 %		

Key

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

Classification of sample: BH-S02

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

Sample details

Sample name:	LoW Code:	
BH-S02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	8 mg/kg	1.462	11.692 mg/kg	0.00117 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	2 mg/kg	1.126	2.252 mg/kg	0.000225 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	3 mg/kg	1.56	4.679 mg/kg	0.0003 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	5.83 mg/kg	1.353	7.891 mg/kg	0.000789 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	3 mg/kg	2.976	8.929 mg/kg	0.000893 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	21 mg/kg	1.968	41.336 mg/kg	0.00413 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	84 mg/kg		84 mg/kg	0.0084 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.28	pH		9.28	pH	9.28 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0177 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0084%)

Classification of sample: BH-S03

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

Sample details

Sample name:	LoW Code:	
BH-S03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.8 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		1	mg/kg	1.32	1.32	mg/kg	0.000132 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19	mg/kg	1.462	27.77	mg/kg	0.00278 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16	mg/kg	1.126	18.014	mg/kg	0.0018 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	7	mg/kg	1.56	10.919	mg/kg	0.0007 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2.29	mg/kg	1.353	3.099	mg/kg	0.00031 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24	mg/kg	2.976	71.43	mg/kg	0.00714 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		50	mg/kg	1.968	98.42	mg/kg	0.00984 %	✓
14	TPH (C6 to C40) petroleum group			TPH		23	mg/kg		23	mg/kg	0.0023 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.28	pH		9.28	pH	9.28 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0267 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH-S04

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

Sample details

Sample name:	LoW Code:	
BH-S04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14	mg/kg	1.462	20.462	mg/kg	0.00205 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8	mg/kg	1.126	9.007	mg/kg	0.000901 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	4	mg/kg	1.56	6.239	mg/kg	0.0004 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2.9	mg/kg	1.353	3.925	mg/kg	0.000393 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	41.668	mg/kg	0.00417 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		28	mg/kg	1.968	55.115	mg/kg	0.00551 %	✓
14	TPH (C6 to C40) petroleum group			TPH		3	mg/kg		3	mg/kg	0.0003 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.2	pH		9.2	pH	9.2 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0156 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0003%)

Classification of sample: BH-S04[2]

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

Sample details

Sample name:	LoW Code:	
BH-S04[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15	mg/kg	1.462	21.923	mg/kg	0.00219 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				23	mg/kg	1.126	25.895	mg/kg	0.00259 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	12	mg/kg	1.56	18.718	mg/kg	0.0012 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				20	mg/kg	2.976	59.525	mg/kg	0.00595 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				44	mg/kg	1.968	86.609	mg/kg	0.00866 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				14	mg/kg		14	mg/kg	0.0014 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.67	pH		8.67	pH	8.67 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.024 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0014%)

Classification of sample: BH-S05

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

Sample details

Sample name:	LoW Code:	
BH-S05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12 mg/kg	1.462	17.539 mg/kg	0.00175 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				22 mg/kg	1.126	24.77 mg/kg	0.00248 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	36 mg/kg	1.56	56.153 mg/kg	0.0036 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				11 mg/kg	2.976	32.739 mg/kg	0.00327 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				42 mg/kg	1.968	82.673 mg/kg	0.00827 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				26 mg/kg		26 mg/kg	0.0026 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.04	pH		8.04	pH	8.04 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0245 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH-S06

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

Sample details

Sample name:	LoW Code:	
BH-S06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	1 mg/kg	1.32	1.32 mg/kg	0.000132 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %	✓	
5	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 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	12 mg/kg	1.126	13.511 mg/kg	0.00135 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	37 mg/kg	1.56	57.713 mg/kg	0.0037 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	4.7 mg/kg	1.353	6.361 mg/kg	0.000636 %	✓	
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	12 mg/kg	2.976	35.715 mg/kg	0.00357 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	39 mg/kg	1.968	76.767 mg/kg	0.00768 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	689 mg/kg		689 mg/kg	0.0689 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				10.3	pH		10.3	pH	10.3 pH		
			PH									
21	naphthalene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		205-917-1	208-96-8									
23	acenaphthene				0.37	mg/kg		0.37	mg/kg	0.000037 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				2.75	mg/kg		2.75	mg/kg	0.000275 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.69	mg/kg		0.69	mg/kg	0.000069 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				7.01	mg/kg		7.01	mg/kg	0.000701 %	✓	
		205-912-4	206-44-0									
28	pyrene				6.44	mg/kg		6.44	mg/kg	0.000644 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				3.22	mg/kg		3.22	mg/kg	0.000322 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				3.13	mg/kg		3.13	mg/kg	0.000313 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				3.2	mg/kg		3.2	mg/kg	0.00032 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				1.17	mg/kg		1.17	mg/kg	0.000117 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				3.22	mg/kg		3.22	mg/kg	0.000322 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				1.84	mg/kg		1.84	mg/kg	0.000184 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.34	mg/kg		0.34	mg/kg	0.000034 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				1.54	mg/kg		1.54	mg/kg	0.000154 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0931 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0689%)

Classification of sample: BH-S07

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

Sample details

Sample name:	LoW Code:	
BH-S07	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	10 mg/kg	1.462	14.616 mg/kg	0.00146 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	6 mg/kg	1.126	6.755 mg/kg	0.000676 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	5 mg/kg	1.56	7.799 mg/kg	0.0005 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	9 mg/kg	2.976	26.786 mg/kg	0.00268 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	15 mg/kg	1.968	29.526 mg/kg	0.00295 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	79 mg/kg		79 mg/kg	0.0079 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.74	pH		8.74	pH	8.74 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0181 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0079%)

Classification of sample: BHWS01A

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

Sample details

Sample name:	LoW Code:	
BHWS01A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
5.8% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.2	mg/kg	1.197	2.489	mg/kg	0.000249 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				5.6	mg/kg	1.32	6.988	mg/kg	0.000699 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.41	mg/kg	2.775	1.076	mg/kg	0.000108 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.216	mg/kg	0.0000216 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14	mg/kg	1.462	19.34	mg/kg	0.00193 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	17.027	mg/kg	0.0017 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	4.3	mg/kg	1.56	6.34	mg/kg	0.000406 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				24	mg/kg	2.976	67.515	mg/kg	0.00675 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				42	mg/kg	1.968	78.14	mg/kg	0.00781 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.1 pH		8.1 pH	8.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0264 %		

Key

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

Classification of sample: BHWS01A[2]

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

Sample details

Sample name:	LoW Code:	
BHWS01A[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.1 m		
Moisture content:		
17% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.2	mg/kg	1.197	2.251	mg/kg	0.000225 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				4.2	mg/kg	1.32	4.74	mg/kg	0.000474 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.72	mg/kg	2.775	1.708	mg/kg	0.000171 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.293	mg/kg	0.0000293 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18	mg/kg	1.462	22.485	mg/kg	0.00225 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	15.397	mg/kg	0.00154 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	13	mg/kg	1.56	17.331	mg/kg	0.00111 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.34	mg/kg	1.5	0.436	mg/kg	0.0000436 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				22	mg/kg	2.976	55.964	mg/kg	0.0056 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				47	mg/kg	1.968	79.072	mg/kg	0.00791 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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								
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
20	pH		PH		7.1 pH		7.1 pH	7.1 pH			
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
33	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	
34	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
35	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	
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
Total:									0.0261 %		

Key

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

Classification of sample: BHWS02

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

Sample details

Sample name:	LoW Code:	
BHWS02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
8.2% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 8.2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				9.9	mg/kg	1.32	12.081	mg/kg	0.00121 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1.2	mg/kg	2.775	3.078	mg/kg	0.000308 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				33	mg/kg	1.462	44.576	mg/kg	0.00446 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	26.014	mg/kg	0.0026 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	22	mg/kg	1.56	31.715	mg/kg	0.00203 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				1.2	mg/kg	1.5	1.664	mg/kg	0.000166 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				37	mg/kg	2.976	101.776	mg/kg	0.0102 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				83	mg/kg	1.968	150.995	mg/kg	0.0151 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.6 pH		7.6 pH	7.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0429 %		

Key

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

Classification of sample: BHWS02[2]

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

Sample details

Sample name:	LoW Code:	
BHWS02[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3 m		
Moisture content:		
9% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				1.9	mg/kg	1.32	2.301	mg/kg	0.00023 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.66	mg/kg	2.775	1.68	mg/kg	0.000168 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.21	mg/kg	0.000021 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	17.431	mg/kg	0.00174 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	13.428	mg/kg	0.00134 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	12	mg/kg	1.56	17.172	mg/kg	0.0011 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.5	mg/kg	1.5	0.688	mg/kg	0.0000688 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				14	mg/kg	2.976	38.227	mg/kg	0.00382 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				45	mg/kg	1.968	81.264	mg/kg	0.00813 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.7 pH		7.7 pH	7.7 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0235 %		

Key

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

Classification of sample: BHWS02[3]

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

Sample details

Sample name:	LoW Code:	
BHWS02[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4 m		
Moisture content:		
18% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.2	mg/kg	1.197	1.217	mg/kg	0.000122 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				2.5	mg/kg	1.32	2.797	mg/kg	0.00028 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.4	mg/kg	2.775	0.941	mg/kg	0.0000941 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.484	mg/kg	0.0000484 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10	mg/kg	1.462	12.386	mg/kg	0.00124 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				17	mg/kg	1.126	16.22	mg/kg	0.00162 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	7.8	mg/kg	1.56	10.311	mg/kg	0.000661 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	0.89	mg/kg	0.000089 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				15	mg/kg	2.976	37.834	mg/kg	0.00378 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				43	mg/kg	1.968	71.73	mg/kg	0.00717 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.3 pH		8.3 pH	8.3 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0218 %		

Key

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

Classification of sample: BHWS03

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

Sample details

Sample name:	LoW Code:	
BHWS03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
5.6% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 5.6% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.9	mg/kg	1.32	4.876	mg/kg	0.000488 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.83	mg/kg	2.775	2.181	mg/kg	0.000218 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21	mg/kg	1.462	29.065	mg/kg	0.00291 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	14.927	mg/kg	0.00149 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	14	mg/kg	1.56	20.679	mg/kg	0.00133 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				31	mg/kg	2.976	87.371	mg/kg	0.00874 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				73	mg/kg	1.968	136.073	mg/kg	0.0136 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.4 pH		8.4 pH	8.4 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0357 %		

Key

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

Classification of sample: BHWS03[2]

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

Sample details

Sample name:	LoW Code:	
BHWS03[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.2 m		
Moisture content:		
25% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 25% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				88	mg/kg	1.32	92.951	mg/kg	0.0093 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				2.9	mg/kg	2.775	6.439	mg/kg	0.000644 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				43	mg/kg	1.462	50.278	mg/kg	0.00503 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				86	mg/kg	1.126	77.461	mg/kg	0.00775 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	45	mg/kg	1.56	56.153	mg/kg	0.0036 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				6	mg/kg	1.5	7.201	mg/kg	0.00072 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				44	mg/kg	2.976	104.765	mg/kg	0.0105 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				3.4	mg/kg	2.554	6.946	mg/kg	0.000695 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				87	mg/kg	1.968	137	mg/kg	0.0137 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.3 pH		9.3 pH	9.3 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		0.51 mg/kg		0.408 mg/kg	0.0000408 %	✓	
24	fluorene	201-695-5	86-73-7		0.26 mg/kg		0.208 mg/kg	0.0000208 %	✓	
25	phenanthrene	201-581-5	85-01-8		2.4 mg/kg		1.92 mg/kg	0.000192 %	✓	
26	anthracene	204-371-1	120-12-7		0.41 mg/kg		0.328 mg/kg	0.0000328 %	✓	
27	fluoranthene	205-912-4	206-44-0		2.2 mg/kg		1.76 mg/kg	0.000176 %	✓	
28	pyrene	204-927-3	129-00-0		1.8 mg/kg		1.44 mg/kg	0.000144 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0591 %		

Key

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

Classification of sample: BHWS04

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

Sample details

Sample name:	LoW Code:	
BHWS04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5 m		
Moisture content:		
12% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 12% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				13	mg/kg	1.32	15.325	mg/kg	0.00153 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.45	mg/kg	2.775	1.115	mg/kg	0.000112 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21	mg/kg	1.462	27.404	mg/kg	0.00274 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	14.074	mg/kg	0.00141 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	13	mg/kg	1.56	18.105	mg/kg	0.00116 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				1.3	mg/kg	1.5	1.741	mg/kg	0.000174 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				14	mg/kg	2.976	37.203	mg/kg	0.00372 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				25	mg/kg	1.968	43.937	mg/kg	0.00439 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.2 pH		8.2 pH	8.2 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0221 %		

Key

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

Classification of sample: BHWS04[2]

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

Sample details

Sample name:	LoW Code:	
BHWS04[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7 m		
Moisture content:		
17% (dry weight correction)		

Hazard properties


None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.2	mg/kg	1.197	1.228	mg/kg	0.000123 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.3	mg/kg	1.32	3.724	mg/kg	0.000372 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.5	mg/kg	2.775	1.186	mg/kg	0.000119 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.293	mg/kg	0.0000293 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11	mg/kg	1.462	13.741	mg/kg	0.00137 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	15.397	mg/kg	0.00154 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	8.6	mg/kg	1.56	11.465	mg/kg	0.000735 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.54	mg/kg	1.5	0.692	mg/kg	0.0000692 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				26	mg/kg	2.976	66.139	mg/kg	0.00661 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				43	mg/kg	1.968	72.343	mg/kg	0.00723 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				20.1	mg/kg		17.179	mg/kg	0.00172 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.6 pH		7.6 pH	7.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0208 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00172%)

Classification of sample: BHWS08

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

Sample details

Sample name:	LoW Code:	
BHWS08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.1 m		
Moisture content:		
9.6% (dry weight correction)		

Hazard properties


None identified

Determinands

Moisture content: 9.6% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.7	mg/kg	1.32	4.457	mg/kg	0.000446 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.34	mg/kg	2.775	0.861	mg/kg	0.0000861 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.7	mg/kg	1.462	12.935	mg/kg	0.00129 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				8.4	mg/kg	1.126	8.629	mg/kg	0.000863 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	8	mg/kg	1.56	11.386	mg/kg	0.00073 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.49	mg/kg	1.5	0.671	mg/kg	0.0000671 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				9.7	mg/kg	2.976	26.341	mg/kg	0.00263 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				34	mg/kg	1.968	61.063	mg/kg	0.00611 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				2.9	mg/kg		2.646	mg/kg	0.000265 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.1 pH		8.1 pH	8.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0135 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00026%)

Classification of sample: BHWS08[2]

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

Sample details

Sample name:	LoW Code:	
BHWS08[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
6.1 m		
Moisture content:		
19% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.8	mg/kg	1.32	4.216	mg/kg	0.000422 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.44	mg/kg	2.775	1.026	mg/kg	0.000103 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.3	mg/kg	1.462	11.422	mg/kg	0.00114 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				22	mg/kg	1.126	20.815	mg/kg	0.00208 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	8.3	mg/kg	1.56	10.879	mg/kg	0.000697 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				15	mg/kg	2.976	37.516	mg/kg	0.00375 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				42	mg/kg	1.968	69.473	mg/kg	0.00695 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.6 pH		7.6 pH	7.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.022 %		

Key

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

Classification of sample: BHWS09

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

Sample details

Sample name:	LoW Code:	
BHWS09	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
24% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 24% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				89	mg/kg	1.32	94.765	mg/kg	0.00948 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				3.3	mg/kg	2.775	7.386	mg/kg	0.000739 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				39	mg/kg	1.462	45.968	mg/kg	0.0046 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				84	mg/kg	1.126	76.27	mg/kg	0.00763 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	48	mg/kg	1.56	60.38	mg/kg	0.00387 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				7.4	mg/kg	1.5	8.953	mg/kg	0.000895 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				48	mg/kg	2.976	115.21	mg/kg	0.0115 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				93	mg/kg	1.968	147.63	mg/kg	0.0148 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.6 pH		9.6 pH	9.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0604 %		

Key

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

Classification of sample: BHWS10

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

Sample details

Sample name:	LoW Code:	
BHWS10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.5 m		
Moisture content:		
13% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 13% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				7.4	mg/kg	1.197	7.839	mg/kg	0.000784 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				85	mg/kg	1.32	99.317	mg/kg	0.00993 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				2.6	mg/kg	2.775	6.386	mg/kg	0.000639 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				32	mg/kg	1.462	41.389	mg/kg	0.00414 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				78	mg/kg	1.126	77.716	mg/kg	0.00777 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	36	mg/kg	1.56	49.693	mg/kg	0.00319 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				6.1	mg/kg	1.5	8.098	mg/kg	0.00081 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				46	mg/kg	2.976	121.158	mg/kg	0.0121 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				55	mg/kg	1.968	95.807	mg/kg	0.00958 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.1 pH		9.1 pH	9.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.11 mg/kg		0.0973 mg/kg	0.00000973 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.1 mg/kg		0.0885 mg/kg	0.00000885 %	✓	
28	pyrene	204-927-3	129-00-0		0.09 mg/kg		0.0796 mg/kg	0.00000796 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.06 mg/kg		0.0531 mg/kg	0.00000531 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0557 %		

Key

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

Classification of sample: HDP01

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

Sample details

Sample name:	HDP01	LoW Code:	
Sample Depth:	0.25 m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	13% (dry weight correction)	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.7	mg/kg	1.197	2.86	mg/kg	0.000286 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				11	mg/kg	1.32	12.853	mg/kg	0.00129 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.73	mg/kg	2.775	1.793	mg/kg	0.000179 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20	mg/kg	1.462	25.868	mg/kg	0.00259 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				32	mg/kg	1.126	31.884	mg/kg	0.00319 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	38	mg/kg	1.56	52.454	mg/kg	0.00336 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.98	mg/kg	1.5	1.301	mg/kg	0.00013 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				21	mg/kg	2.976	55.311	mg/kg	0.00553 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				89	mg/kg	1.968	155.033	mg/kg	0.0155 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				2.6	mg/kg		2.301	mg/kg	0.00023 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.2 pH		8.2 pH	8.2 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.39 mg/kg		0.345 mg/kg	0.0000345 %	✓	
26	anthracene	204-371-1	120-12-7		0.07 mg/kg		0.0619 mg/kg	0.00000619 %	✓	
27	fluoranthene	205-912-4	206-44-0		0.52 mg/kg		0.46 mg/kg	0.000046 %	✓	
28	pyrene	204-927-3	129-00-0		0.5 mg/kg		0.442 mg/kg	0.0000442 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.22 mg/kg		0.195 mg/kg	0.0000195 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.35 mg/kg		0.31 mg/kg	0.000031 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.25 mg/kg		0.221 mg/kg	0.0000221 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.11 mg/kg		0.0973 mg/kg	0.00000973 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.23 mg/kg		0.204 mg/kg	0.0000204 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.12 mg/kg		0.106 mg/kg	0.0000106 %	✓	
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		0.16 mg/kg		0.142 mg/kg	0.0000142 %	✓	
Total:								0.0333 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00023%)

Classification of sample: HDP02

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

Sample details

Sample name:	LoW Code:	
HDP02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.3 m		
Moisture content:		
12% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 12% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				3.1	mg/kg	1.197	3.313	mg/kg	0.000331 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				7	mg/kg	1.32	8.252	mg/kg	0.000825 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.68	mg/kg	2.775	1.685	mg/kg	0.000169 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.306	mg/kg	0.0000306 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16	mg/kg	1.462	20.879	mg/kg	0.00209 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				21	mg/kg	1.126	21.11	mg/kg	0.00211 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	23	mg/kg	1.56	32.032	mg/kg	0.00205 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.62	mg/kg	1.5	0.83	mg/kg	0.000083 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				20	mg/kg	2.976	53.148	mg/kg	0.00531 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				58	mg/kg	1.968	101.935	mg/kg	0.0102 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.1 pH		8.1 pH	8.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.18 mg/kg		0.161 mg/kg	0.0000161 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.28 mg/kg		0.25 mg/kg	0.000025 %	✓	
28	pyrene	204-927-3	129-00-0		0.28 mg/kg		0.25 mg/kg	0.000025 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.12 mg/kg		0.107 mg/kg	0.0000107 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.13 mg/kg		0.116 mg/kg	0.0000116 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.11 mg/kg		0.0982 mg/kg	0.00000982 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.09 mg/kg		0.0804 mg/kg	0.00000804 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.12 mg/kg		0.107 mg/kg	0.0000107 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.03 %		

Key

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

Classification of sample: HDP03

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

Sample details

Sample name:	LoW Code:	
HDP03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		
Moisture content:		
21% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				5.6	mg/kg	1.197	5.54	mg/kg	0.000554 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				18	mg/kg	1.32	19.641	mg/kg	0.00196 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.86	mg/kg	2.775	1.973	mg/kg	0.000197 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.9	mg/kg	1.142	0.85	mg/kg	0.000085 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22	mg/kg	1.462	26.574	mg/kg	0.00266 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				72	mg/kg	1.126	66.995	mg/kg	0.0067 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	140	mg/kg	1.56	180.474	mg/kg	0.0116 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				2.2	mg/kg	1.5	2.728	mg/kg	0.000273 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				21	mg/kg	2.976	51.654	mg/kg	0.00517 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				200	mg/kg	1.968	325.355	mg/kg	0.0325 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				30.7	mg/kg		25.372	mg/kg	0.00254 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.8 pH		7.8 pH	7.8 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		0.19 mg/kg		0.157 mg/kg	0.0000157 %	✓	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		0.24 mg/kg		0.198 mg/kg	0.0000198 %	✓	
24	fluorene	201-695-5	86-73-7		0.14 mg/kg		0.116 mg/kg	0.0000116 %	✓	
25	phenanthrene	201-581-5	85-01-8		1.6 mg/kg		1.322 mg/kg	0.000132 %	✓	
26	anthracene	204-371-1	120-12-7		0.35 mg/kg		0.289 mg/kg	0.0000289 %	✓	
27	fluoranthene	205-912-4	206-44-0		2.2 mg/kg		1.818 mg/kg	0.000182 %	✓	
28	pyrene	204-927-3	129-00-0		2.1 mg/kg		1.736 mg/kg	0.000174 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1 mg/kg		0.826 mg/kg	0.0000826 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		1.3 mg/kg		1.074 mg/kg	0.000107 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.2 mg/kg		0.992 mg/kg	0.0000992 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.75 mg/kg		0.62 mg/kg	0.000062 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.4 mg/kg		1.157 mg/kg	0.000116 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.69 mg/kg		0.57 mg/kg	0.000057 %	✓	
35	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.19 mg/kg		0.157 mg/kg	0.0000157 %	✓	
36	benzo[ghi]perylene 205-883-8		191-24-2		0.82 mg/kg		0.678 mg/kg	0.0000678 %	✓	
Total:								0.0662 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00254%)

Classification of sample: HDP05

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

Sample details

Sample name:	LoW Code:	
HDP05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		
Moisture content:		
12% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 12% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.7	mg/kg	1.197	2.886	mg/kg	0.000289 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				5.7	mg/kg	1.32	6.72	mg/kg	0.000672 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.63	mg/kg	2.775	1.561	mg/kg	0.000156 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14	mg/kg	1.462	18.269	mg/kg	0.00183 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				18	mg/kg	1.126	18.095	mg/kg	0.00181 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	17	mg/kg	1.56	23.676	mg/kg	0.00152 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.51	mg/kg	1.5	0.683	mg/kg	0.0000683 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				17	mg/kg	2.976	45.175	mg/kg	0.00452 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				41	mg/kg	1.968	72.057	mg/kg	0.00721 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.9 pH		7.9 pH	7.9 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.06 mg/kg		0.0536 mg/kg	0.00000536 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.08 mg/kg		0.0714 mg/kg	0.00000714 %	✓	
28	pyrene	204-927-3	129-00-0		0.07 mg/kg		0.0625 mg/kg	0.00000625 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.06 mg/kg		0.0536 mg/kg	0.00000536 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0248 %		

Key

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

Classification of sample: HDP06

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

Sample details

Sample name:	LoW Code:	
HDP06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		
Moisture content:		
13% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 13% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.7	mg/kg	1.197	2.86	mg/kg	0.000286 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				7	mg/kg	1.32	8.179	mg/kg	0.000818 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.66	mg/kg	2.775	1.621	mg/kg	0.000162 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16	mg/kg	1.462	20.695	mg/kg	0.00207 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				27	mg/kg	1.126	26.902	mg/kg	0.00269 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	35	mg/kg	1.56	48.313	mg/kg	0.0031 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.74	mg/kg	1.5	0.982	mg/kg	0.0000982 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				19	mg/kg	2.976	50.043	mg/kg	0.005 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				66	mg/kg	1.968	114.968	mg/kg	0.0115 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.3 pH		8.3 pH	8.3 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.16 mg/kg		0.142 mg/kg	0.0000142 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.22 mg/kg		0.195 mg/kg	0.0000195 %	✓	
28	pyrene	204-927-3	129-00-0		0.2 mg/kg		0.177 mg/kg	0.0000177 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.14 mg/kg		0.124 mg/kg	0.0000124 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.16 mg/kg		0.142 mg/kg	0.0000142 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.17 mg/kg		0.15 mg/kg	0.000015 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.1 mg/kg		0.0885 mg/kg	0.00000885 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.13 mg/kg		0.115 mg/kg	0.0000115 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.08 mg/kg		0.0708 mg/kg	0.00000708 %	✓	
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		0.11 mg/kg		0.0973 mg/kg	0.00000973 %	✓	
Total:								0.0325 %		

Key

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

Classification of sample: HDP07

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

Sample details

Sample name:	LoW Code:	
HDP07	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		
Moisture content:		
14% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 14% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				3.8	mg/kg	1.197	3.99	mg/kg	0.000399 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				14	mg/kg	1.32	16.215	mg/kg	0.00162 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.77	mg/kg	2.775	1.875	mg/kg	0.000187 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17	mg/kg	1.462	21.795	mg/kg	0.00218 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				47	mg/kg	1.126	46.418	mg/kg	0.00464 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	130	mg/kg	1.56	177.874	mg/kg	0.0114 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				1.7	mg/kg	1.5	2.237	mg/kg	0.000224 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				18	mg/kg	2.976	46.994	mg/kg	0.0047 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				150	mg/kg	1.968	258.999	mg/kg	0.0259 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				15.3	mg/kg		13.421	mg/kg	0.00134 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.9 pH		7.9 pH	7.9 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.53 mg/kg		0.465 mg/kg	0.0000465 %	✓	
26	anthracene	204-371-1	120-12-7		0.08 mg/kg		0.0702 mg/kg	0.00000702 %	✓	
27	fluoranthene	205-912-4	206-44-0		1.1 mg/kg		0.965 mg/kg	0.0000965 %	✓	
28	pyrene	204-927-3	129-00-0		0.93 mg/kg		0.816 mg/kg	0.0000816 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.47 mg/kg		0.412 mg/kg	0.0000412 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.55 mg/kg		0.482 mg/kg	0.0000482 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.59 mg/kg		0.518 mg/kg	0.0000518 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.34 mg/kg		0.298 mg/kg	0.0000298 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.52 mg/kg		0.456 mg/kg	0.0000456 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.28 mg/kg		0.246 mg/kg	0.0000246 %	✓	
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		0.37 mg/kg		0.325 mg/kg	0.0000325 %	✓	
Total:								0.0539 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration 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: HDP07[2]

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

Sample details

Sample name:	LoW Code:	
HDP07[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
8.1% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2	mg/kg	1.197	2.215	mg/kg	0.000221 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				5.8	mg/kg	1.32	7.084	mg/kg	0.000708 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.48	mg/kg	2.775	1.232	mg/kg	0.000123 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.211	mg/kg	0.0000211 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11	mg/kg	1.462	14.872	mg/kg	0.00149 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	14.581	mg/kg	0.00146 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	20	mg/kg	1.56	28.859	mg/kg	0.00185 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.42	mg/kg	1.5	0.583	mg/kg	0.0000583 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				13	mg/kg	2.976	35.792	mg/kg	0.00358 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				34	mg/kg	1.968	61.911	mg/kg	0.00619 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.3 pH		8.3 pH	8.3 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.06 mg/kg		0.0555 mg/kg	0.00000555 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.1 mg/kg		0.0925 mg/kg	0.00000925 %	✓	
28	pyrene	204-927-3	129-00-0		0.07 mg/kg		0.0648 mg/kg	0.00000648 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.08 mg/kg		0.074 mg/kg	0.0000074 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.05 mg/kg		0.0463 mg/kg	0.00000463 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0224 %		

Key

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

Classification of sample: HDP08

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

Sample details

Sample name:	LoW Code:	
HDP08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		
Moisture content:		
16% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 16% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.9	mg/kg	1.197	2.993	mg/kg	0.000299 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				10	mg/kg	1.32	11.382	mg/kg	0.00114 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.67	mg/kg	2.775	1.603	mg/kg	0.00016 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.394	mg/kg	0.0000394 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16	mg/kg	1.462	20.159	mg/kg	0.00202 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				37	mg/kg	1.126	35.912	mg/kg	0.00359 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	79	mg/kg	1.56	106.229	mg/kg	0.00681 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				1.3	mg/kg	1.5	1.681	mg/kg	0.000168 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				18	mg/kg	2.976	46.183	mg/kg	0.00462 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				130	mg/kg	1.968	220.596	mg/kg	0.0221 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.7 pH		7.7 pH	7.7 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene 201-695-5	86-73-7			0.05 mg/kg		0.0431 mg/kg	0.00000431 %	✓	
25	phenanthrene 201-581-5	85-01-8			0.47 mg/kg		0.405 mg/kg	0.0000405 %	✓	
26	anthracene 204-371-1	120-12-7			0.08 mg/kg		0.069 mg/kg	0.0000069 %	✓	
27	fluoranthene 205-912-4	206-44-0			0.66 mg/kg		0.569 mg/kg	0.0000569 %	✓	
28	pyrene 204-927-3	129-00-0			0.66 mg/kg		0.569 mg/kg	0.0000569 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.39 mg/kg		0.336 mg/kg	0.0000336 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.41 mg/kg		0.353 mg/kg	0.0000353 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.38 mg/kg		0.328 mg/kg	0.0000328 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.27 mg/kg		0.233 mg/kg	0.0000233 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.42 mg/kg		0.362 mg/kg	0.0000362 %	✓	
34	indeno[123-cd]pyrene 205-893-2	193-39-5			0.23 mg/kg		0.198 mg/kg	0.0000198 %	✓	
35	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.07 mg/kg		0.0603 mg/kg	0.00000603 %	✓	
36	benzo[ghi]perylene 205-883-8	191-24-2			0.27 mg/kg		0.233 mg/kg	0.0000233 %	✓	
Total:								0.0479 %		

Key

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

Classification of sample: HDP08[2]

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

Sample details

Sample name:	LoW Code:	
HDP08[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		
Moisture content:		
12% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 12% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				6.7	mg/kg	1.32	7.898	mg/kg	0.00079 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.55	mg/kg	2.775	1.363	mg/kg	0.000136 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	16.964	mg/kg	0.0017 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	14.074	mg/kg	0.00141 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	17	mg/kg	1.56	23.676	mg/kg	0.00152 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.48	mg/kg	1.5	0.643	mg/kg	0.0000643 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				15	mg/kg	2.976	39.861	mg/kg	0.00399 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				44	mg/kg	1.968	77.33	mg/kg	0.00773 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.4 pH		8.4 pH	8.4 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.1 mg/kg		0.0893 mg/kg	0.00000893 %	✓	
28	pyrene	204-927-3	129-00-0		0.13 mg/kg		0.116 mg/kg	0.0000116 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.08 mg/kg		0.0714 mg/kg	0.00000714 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.05 mg/kg		0.0446 mg/kg	0.00000446 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.05 mg/kg		0.0446 mg/kg	0.00000446 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0242 %		

Key

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

Classification of sample: HDP09

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

Sample details

Sample name:	LoW Code:	
HDP09	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.55 m		
Moisture content:		
11% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 11% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				11	mg/kg	1.32	13.084	mg/kg	0.00131 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.62	mg/kg	2.775	1.55	mg/kg	0.000155 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15	mg/kg	1.462	19.751	mg/kg	0.00198 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	25.358	mg/kg	0.00254 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	50	mg/kg	1.56	70.262	mg/kg	0.0045 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				1.1	mg/kg	1.5	1.487	mg/kg	0.000149 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				15	mg/kg	2.976	40.22	mg/kg	0.00402 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				48	mg/kg	1.968	85.12	mg/kg	0.00851 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.9 pH		7.9 pH	7.9 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.1 mg/kg		0.0901 mg/kg	0.00000901 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.23 mg/kg		0.207 mg/kg	0.0000207 %	✓	
28	pyrene	204-927-3	129-00-0		0.22 mg/kg		0.198 mg/kg	0.0000198 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.11 mg/kg		0.0991 mg/kg	0.00000991 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.11 mg/kg		0.0991 mg/kg	0.00000991 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.11 mg/kg		0.0991 mg/kg	0.00000991 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.07 mg/kg		0.0631 mg/kg	0.00000631 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.11 mg/kg		0.0991 mg/kg	0.00000991 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.05 mg/kg		0.045 mg/kg	0.0000045 %	✓	
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		0.07 mg/kg		0.0631 mg/kg	0.00000631 %	✓	
Total:								0.0301 %		

Key

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

Classification of sample: HDP09[2]

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

Sample details

Sample name:	LoW Code:	
HDP09[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.35 m		
Moisture content:		
11% (dry weight correction)		

Hazard properties


None identified

Determinands

Moisture content: 11% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				3.7	mg/kg	1.197	3.99	mg/kg	0.000399 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				35	mg/kg	1.32	41.632	mg/kg	0.00416 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1.3	mg/kg	2.775	3.25	mg/kg	0.000325 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				46	mg/kg	1.462	60.569	mg/kg	0.00606 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				37	mg/kg	1.126	37.53	mg/kg	0.00375 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	22	mg/kg	1.56	30.915	mg/kg	0.00198 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				2.1	mg/kg	1.5	2.838	mg/kg	0.000284 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				30	mg/kg	2.976	80.44	mg/kg	0.00804 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				72	mg/kg	1.968	127.68	mg/kg	0.0128 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				14	mg/kg		12.613	mg/kg	0.00126 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9 pH		9 pH	9pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.11 mg/kg		0.0991 mg/kg	0.00000991 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.05 mg/kg		0.045 mg/kg	0.0000045 %	✓	
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0399 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00126%)

Classification of sample: HDP10

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

Sample details

Sample name:	HDP10	LoW Code:	
Sample Depth:	0.15 m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	13% (dry weight correction)	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.2	mg/kg	1.197	2.331	mg/kg	0.000233 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				7	mg/kg	1.32	8.179	mg/kg	0.000818 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.67	mg/kg	2.775	1.646	mg/kg	0.000165 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.303	mg/kg	0.0000303 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17	mg/kg	1.462	21.988	mg/kg	0.0022 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				27	mg/kg	1.126	26.902	mg/kg	0.00269 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	24	mg/kg	1.56	33.129	mg/kg	0.00212 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.71	mg/kg	1.5	0.943	mg/kg	0.0000943 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				20	mg/kg	2.976	52.677	mg/kg	0.00527 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				48	mg/kg	1.968	83.613	mg/kg	0.00836 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.2 pH		8.2 pH	8.2 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.18 mg/kg		0.159 mg/kg	0.0000159 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.23 mg/kg		0.204 mg/kg	0.0000204 %	✓	
28	pyrene	204-927-3	129-00-0		0.22 mg/kg		0.195 mg/kg	0.0000195 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.11 mg/kg		0.0973 mg/kg	0.00000973 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.14 mg/kg		0.124 mg/kg	0.0000124 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.1 mg/kg		0.0885 mg/kg	0.00000885 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.07 mg/kg		0.0619 mg/kg	0.00000619 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.09 mg/kg		0.0796 mg/kg	0.00000796 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0288 %		

Key

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

Classification of sample: HDP10[2]

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

Sample details

Sample name:	HDP10[2]	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	
Moisture content:	11% (dry weight correction)			

Hazard properties


None identified

Determinands

Moisture content: 11% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				6.5	mg/kg	1.32	7.732	mg/kg	0.000773 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.62	mg/kg	2.775	1.55	mg/kg	0.000155 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.515	mg/kg	0.0000515 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15	mg/kg	1.462	19.751	mg/kg	0.00198 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				29	mg/kg	1.126	29.415	mg/kg	0.00294 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	21	mg/kg	1.56	29.51	mg/kg	0.00189 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.62	mg/kg	1.5	0.838	mg/kg	0.0000838 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				19	mg/kg	2.976	50.945	mg/kg	0.00509 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				58	mg/kg	1.968	102.853	mg/kg	0.0103 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				3.5	mg/kg		3.153	mg/kg	0.000315 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.2 pH		8.2 pH	8.2 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.18 mg/kg		0.162 mg/kg	0.0000162 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.26 mg/kg		0.234 mg/kg	0.0000234 %	✓	
28	pyrene	204-927-3	129-00-0		0.27 mg/kg		0.243 mg/kg	0.0000243 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.1 mg/kg		0.0901 mg/kg	0.00000901 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.21 mg/kg		0.189 mg/kg	0.0000189 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.13 mg/kg		0.117 mg/kg	0.0000117 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.06 mg/kg		0.0541 mg/kg	0.00000541 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.11 mg/kg		0.0991 mg/kg	0.00000991 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.05 mg/kg		0.045 mg/kg	0.0000045 %	✓	
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		0.07 mg/kg		0.0631 mg/kg	0.00000631 %	✓	
Total:								0.0246 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00031%)

Classification of sample: HDP12

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

Sample details

Sample name:	HDP12	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	
Moisture content:	14% (dry weight correction)			

Hazard properties


None identified

Determinands

Moisture content: 14% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.1	mg/kg	1.197	2.205	mg/kg	0.000221 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				7.9	mg/kg	1.32	9.15	mg/kg	0.000915 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.7	mg/kg	2.775	1.704	mg/kg	0.00017 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16	mg/kg	1.462	20.513	mg/kg	0.00205 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				29	mg/kg	1.126	28.641	mg/kg	0.00286 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	30	mg/kg	1.56	41.048	mg/kg	0.00263 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.81	mg/kg	1.5	1.066	mg/kg	0.000107 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				19	mg/kg	2.976	49.604	mg/kg	0.00496 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				53	mg/kg	1.968	91.513	mg/kg	0.00915 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				15.3	mg/kg		13.421	mg/kg	0.00134 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.1 pH		8.1 pH	8.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.5 mg/kg		0.439 mg/kg	0.0000439 %	✓	
26	anthracene	204-371-1	120-12-7		0.1 mg/kg		0.0877 mg/kg	0.00000877 %	✓	
27	fluoranthene	205-912-4	206-44-0		0.72 mg/kg		0.632 mg/kg	0.0000632 %	✓	
28	pyrene	204-927-3	129-00-0		0.69 mg/kg		0.605 mg/kg	0.0000605 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.31 mg/kg		0.272 mg/kg	0.0000272 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.43 mg/kg		0.377 mg/kg	0.0000377 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.32 mg/kg		0.281 mg/kg	0.0000281 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.21 mg/kg		0.184 mg/kg	0.0000184 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.33 mg/kg		0.289 mg/kg	0.0000289 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.15 mg/kg		0.132 mg/kg	0.0000132 %	✓	
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		0.19 mg/kg		0.167 mg/kg	0.0000167 %	✓	
Total:								0.0256 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration 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: HDP12[2]

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

Sample details

Sample name:	HDP12[2]	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)	
Moisture content:	12% (dry weight correction)			

Hazard properties

None identified

Determinands

Moisture content: 12% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.2	mg/kg	1.197	2.351	mg/kg	0.000235 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				10	mg/kg	1.32	11.789	mg/kg	0.00118 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.64	mg/kg	2.775	1.586	mg/kg	0.000159 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15	mg/kg	1.462	19.574	mg/kg	0.00196 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				23	mg/kg	1.126	23.121	mg/kg	0.00231 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	21	mg/kg	1.56	29.247	mg/kg	0.00188 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.65	mg/kg	1.5	0.871	mg/kg	0.0000871 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				19	mg/kg	2.976	50.49	mg/kg	0.00505 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				50	mg/kg	1.968	87.875	mg/kg	0.00879 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				43.5	mg/kg		38.839	mg/kg	0.00388 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		7.6 pH		7.6 pH	7.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.14 mg/kg		0.125 mg/kg	0.0000125 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		0.19 mg/kg		0.17 mg/kg	0.000017 %	✓	
28	pyrene	204-927-3	129-00-0		0.2 mg/kg		0.179 mg/kg	0.0000179 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.08 mg/kg		0.0714 mg/kg	0.00000714 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.16 mg/kg		0.143 mg/kg	0.0000143 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.1 mg/kg		0.0893 mg/kg	0.00000893 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.05 mg/kg		0.0446 mg/kg	0.00000446 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.08 mg/kg		0.0714 mg/kg	0.00000714 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0264 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00388%)

Classification of sample: TP-N01

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

Sample details

Sample name:	LoW Code:	
TP-N01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7	mg/kg	1.32	9.242	mg/kg	0.000924 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.7	mg/kg	2.775	1.943	mg/kg	0.000194 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52	mg/kg	1.126	58.546	mg/kg	0.00585 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	85	mg/kg	1.56	132.584	mg/kg	0.0085 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.976	65.478	mg/kg	0.00655 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		123	mg/kg	1.968	242.113	mg/kg	0.0242 %	✓
14	TPH (C6 to C40) petroleum group			TPH		109	mg/kg		109	mg/kg	0.0109 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.29	pH		8.29	pH	8.29 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		205-917-1	208-96-8									
23	acenaphthene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.64	mg/kg		0.64	mg/kg	0.000064 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				1.68	mg/kg		1.68	mg/kg	0.000168 %	✓	
		205-912-4	206-44-0									
28	pyrene				1.58	mg/kg		1.58	mg/kg	0.000158 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				1.05	mg/kg		1.05	mg/kg	0.000105 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.98	mg/kg		0.98	mg/kg	0.000098 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				1.33	mg/kg		1.33	mg/kg	0.000133 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				1.14	mg/kg		1.14	mg/kg	0.000114 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.76	mg/kg		0.76	mg/kg	0.000076 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.69	mg/kg		0.69	mg/kg	0.000069 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0624 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: TP-N01[2]

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

Sample details

Sample name:	LoW Code:	
TP-N01[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	24.846	mg/kg	0.00248 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23	mg/kg	1.126	25.895	mg/kg	0.00259 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	34	mg/kg	1.56	53.034	mg/kg	0.0034 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.976	65.478	mg/kg	0.00655 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		48	mg/kg	1.968	94.483	mg/kg	0.00945 %	✓
14	TPH (C6 to C40) petroleum group			TPH		31	mg/kg		31	mg/kg	0.0031 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.26	pH		8.26	pH	8.26 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0296 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0031%)

Classification of sample: TP-N02

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

Sample details

Sample name:	LoW Code:	
TP-N02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20	mg/kg	1.126	22.518	mg/kg	0.00225 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	25	mg/kg	1.56	38.995	mg/kg	0.0025 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.976	50.597	mg/kg	0.00506 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		46	mg/kg	1.968	90.546	mg/kg	0.00905 %	✓
14	TPH (C6 to C40) petroleum group			TPH		17	mg/kg		17	mg/kg	0.0017 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.72	pH		8.72	pH	8.72 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0249 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0017%)

Classification of sample: WS01

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

Sample details

Sample name:	LoW Code:	
WS01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.8 m		
Moisture content:		
5.3% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 5.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				5.1	mg/kg	1.32	6.395	mg/kg	0.000639 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.39	mg/kg	2.775	1.028	mg/kg	0.000103 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.217	mg/kg	0.0000217 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	18.044	mg/kg	0.0018 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				15	mg/kg	1.126	16.038	mg/kg	0.0016 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	6	mg/kg	1.56	8.888	mg/kg	0.00057 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				20	mg/kg	2.976	56.529	mg/kg	0.00565 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				45	mg/kg	1.968	84.119	mg/kg	0.00841 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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								
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
20	pH		PH		8.9 pH		8.9 pH	8.9 pH			
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
33	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	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
35	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	
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
Total:								0.0257 %			

Key

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

Classification of sample: WS01[2]

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

Sample details

Sample name:	LoW Code:	
WS01[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.5 m		
Moisture content:		
8.9% (dry weight correction)		

Hazard properties


None identified

Determinands

Moisture content: 8.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.1	mg/kg	1.197	1.209	mg/kg	0.000121 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				3.8	mg/kg	1.32	4.607	mg/kg	0.000461 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.44	mg/kg	2.775	1.121	mg/kg	0.000112 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.21	mg/kg	0.000021 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12	mg/kg	1.462	16.105	mg/kg	0.00161 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	13.44	mg/kg	0.00134 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	7.3	mg/kg	1.56	10.456	mg/kg	0.00067 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.91	mg/kg	1.5	1.254	mg/kg	0.000125 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				15	mg/kg	2.976	40.995	mg/kg	0.0041 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				36	mg/kg	1.968	65.071	mg/kg	0.00651 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				193	mg/kg		177.227	mg/kg	0.0177 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8 pH		8 pH	8pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0336 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0177%)

Classification of sample: **WS02**

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

Sample details

Sample name:	LoW Code:	
WS02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		
Moisture content:		
3.5% (dry weight correction)		

Hazard properties


None identified

Determinands

Moisture content: 3.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				2.5	mg/kg	1.32	3.189	mg/kg	0.000319 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.31	mg/kg	2.775	0.831	mg/kg	0.0000831 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.441	mg/kg	0.0000441 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.6	mg/kg	1.462	13.556	mg/kg	0.00136 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				9.5	mg/kg	1.126	10.334	mg/kg	0.00103 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	6.1	mg/kg	1.56	9.193	mg/kg	0.000589 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.52	mg/kg	1.5	0.754	mg/kg	0.0000754 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				9.9	mg/kg	2.976	28.469	mg/kg	0.00285 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				39	mg/kg	1.968	74.171	mg/kg	0.00742 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				231	mg/kg		223.188	mg/kg	0.0223 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.2 pH		9.2 pH	9.2 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.09 mg/kg		0.087 mg/kg	0.0000087 %	✓	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.037 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0223%)

Classification of sample: **WS03**

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

Sample details

Sample name:	LoW Code:	
WS03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.6 m		
Moisture content:		
3.8% (dry weight correction)		

Hazard properties


None identified

Determinands

Moisture content: 3.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				1.5	mg/kg	1.32	1.908	mg/kg	0.000191 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.07	mg/kg	2.775	0.187	mg/kg	0.0000187 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.33	mg/kg	0.000033 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				5.9	mg/kg	1.462	8.307	mg/kg	0.000831 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				4.3	mg/kg	1.126	4.664	mg/kg	0.000466 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	2.3	mg/kg	1.56	3.456	mg/kg	0.000222 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				3.2	mg/kg	2.976	9.175	mg/kg	0.000918 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				16	mg/kg	1.968	30.341	mg/kg	0.00303 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				458	mg/kg		441.233	mg/kg	0.0441 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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								
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
20	pH		PH		10.2 pH		10.2 pH	10.2 pH			
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
25	phenanthrene	201-581-5	85-01-8		0.05 mg/kg		0.0482 mg/kg	0.00000482 %	✓		
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
27	fluoranthene	205-912-4	206-44-0		0.1 mg/kg		0.0963 mg/kg	0.00000963 %	✓		
28	pyrene	204-927-3	129-00-0		0.17 mg/kg		0.164 mg/kg	0.0000164 %	✓		
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.07 mg/kg		0.0674 mg/kg	0.00000674 %	✓		
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.17 mg/kg		0.164 mg/kg	0.0000164 %	✓		
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.27 mg/kg		0.26 mg/kg	0.000026 %	✓		
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.2 mg/kg		0.193 mg/kg	0.0000193 %	✓		
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.47 mg/kg		0.453 mg/kg	0.0000453 %	✓		
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.31 mg/kg		0.299 mg/kg	0.0000299 %	✓		
35	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	
36	benzo[ghi]perylene 205-883-8		191-24-2		0.46 mg/kg		0.443 mg/kg	0.0000443 %	✓		
Total:									0.051 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0441%)

Classification of sample: WS04

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

Sample details

Sample name:	LoW Code:
WS04	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m	
Moisture content:	
2.9% (dry weight correction)	

Hazard properties


None identified

Determinands

Moisture content: 2.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				1.6	mg/kg	1.32	2.053	mg/kg	0.000205 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.06	mg/kg	2.775	0.162	mg/kg	0.0000162 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.444	mg/kg	0.0000444 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				5.8	mg/kg	1.462	8.238	mg/kg	0.000824 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				3.8	mg/kg	1.126	4.158	mg/kg	0.000416 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	2.5	mg/kg	1.56	3.79	mg/kg	0.000243 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.27	mg/kg	1.5	0.394	mg/kg	0.0000394 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				3.3	mg/kg	2.976	9.545	mg/kg	0.000954 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				14	mg/kg	1.968	26.781	mg/kg	0.00268 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				150.2	mg/kg		145.967	mg/kg	0.0146 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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								
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
20	pH		PH		9.1 pH		9.1 pH	9.1 pH			
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
27	fluoranthene	205-912-4	206-44-0		0.17 mg/kg		0.165 mg/kg	0.0000165 %	✓		
28	pyrene	204-927-3	129-00-0		0.21 mg/kg		0.204 mg/kg	0.0000204 %	✓		
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.1 mg/kg		0.0972 mg/kg	0.00000972 %	✓		
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.16 mg/kg		0.155 mg/kg	0.0000155 %	✓		
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.26 mg/kg		0.253 mg/kg	0.0000253 %	✓		
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.16 mg/kg		0.155 mg/kg	0.0000155 %	✓		
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.38 mg/kg		0.369 mg/kg	0.0000369 %	✓		
34	indeno[123-cd]pyrene	205-893-2	193-39-5		0.19 mg/kg		0.185 mg/kg	0.0000185 %	✓		
35	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	
36	benzo[ghi]perylene 205-883-8		191-24-2		0.34 mg/kg		0.33 mg/kg	0.000033 %	✓		
Total:									0.0211 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0146%)

Classification of sample: WS04[2]

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

Sample details

Sample name:	LoW Code:	
WS04[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
20% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 20% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				5.3	mg/kg	1.197	5.287	mg/kg	0.000529 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				80	mg/kg	1.32	88.022	mg/kg	0.0088 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				2.2	mg/kg	2.775	5.088	mg/kg	0.000509 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				35	mg/kg	1.462	42.629	mg/kg	0.00426 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				59	mg/kg	1.126	55.356	mg/kg	0.00554 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	33	mg/kg	1.56	42.895	mg/kg	0.00275 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				2.4	mg/kg	1.5	3	mg/kg	0.0003 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				38	mg/kg	2.976	94.248	mg/kg	0.00942 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				74	mg/kg	1.968	121.384	mg/kg	0.0121 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.2 pH		9.2 pH	9.2 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.051 %		

Key

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

Classification of sample: **WS05**

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

Sample details

Sample name:	LoW Code:	
WS05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		
Moisture content:		
2% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				1.8	mg/kg	1.32	2.33	mg/kg	0.000233 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.06	mg/kg	2.775	0.163	mg/kg	0.0000163 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.56	mg/kg	0.000056 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				6.1	mg/kg	1.462	8.741	mg/kg	0.000874 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				5	mg/kg	1.126	5.519	mg/kg	0.000552 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	3.2	mg/kg	1.56	4.894	mg/kg	0.000314 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.48	mg/kg	1.5	0.706	mg/kg	0.0000706 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				3	mg/kg	2.976	8.754	mg/kg	0.000875 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				25	mg/kg	1.968	48.245	mg/kg	0.00482 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		9.1 pH		9.1 pH	9.1 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2		193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8		191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0147 %		

Key

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

Classification of sample: WS05[2]

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

Sample details

Sample name:	LoW Code:	
WS05[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
18% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				2.8	mg/kg	1.197	2.841	mg/kg	0.000284 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				6	mg/kg	1.32	6.714	mg/kg	0.000671 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1.1	mg/kg	2.775	2.587	mg/kg	0.000259 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25	mg/kg	1.462	30.965	mg/kg	0.0031 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				28	mg/kg	1.126	26.716	mg/kg	0.00267 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	11	mg/kg	1.56	14.541	mg/kg	0.000932 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.35	mg/kg	1.5	0.445	mg/kg	0.0000445 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				33	mg/kg	2.976	83.235	mg/kg	0.00832 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				55	mg/kg	1.968	91.747	mg/kg	0.00917 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.4 pH		8.4 pH	8.4 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0322 %		

Key

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

Classification of sample: **WS06**

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

Sample details

Sample name:	LoW Code:	
WS06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.7 m		
Moisture content:		
5.7% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 5.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				4.8	mg/kg	1.32	5.996	mg/kg	0.0006 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.66	mg/kg	2.775	1.733	mg/kg	0.000173 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.324	mg/kg	0.0000324 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18	mg/kg	1.462	24.889	mg/kg	0.00249 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				19	mg/kg	1.126	20.238	mg/kg	0.00202 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	12	mg/kg	1.56	17.708	mg/kg	0.00114 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.33	mg/kg	1.5	0.468	mg/kg	0.0000468 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				24	mg/kg	2.976	67.578	mg/kg	0.00676 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				62	mg/kg	1.968	115.459	mg/kg	0.0115 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				11	mg/kg		10.407	mg/kg	0.00104 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.8 pH		8.8 pH	8.8 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		0.44 mg/kg		0.416 mg/kg	0.0000416 %	✓	
26	anthracene	204-371-1	120-12-7		0.1 mg/kg		0.0946 mg/kg	0.00000946 %	✓	
27	fluoranthene	205-912-4	206-44-0		0.76 mg/kg		0.719 mg/kg	0.0000719 %	✓	
28	pyrene	204-927-3	129-00-0		0.72 mg/kg		0.681 mg/kg	0.0000681 %	✓	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.35 mg/kg		0.331 mg/kg	0.0000331 %	✓	
30	chrysene 601-048-00-0	205-923-4	218-01-9		0.31 mg/kg		0.293 mg/kg	0.0000293 %	✓	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.34 mg/kg		0.322 mg/kg	0.0000322 %	✓	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.16 mg/kg		0.151 mg/kg	0.0000151 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.29 mg/kg		0.274 mg/kg	0.0000274 %	✓	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0271 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00104%)

Classification of sample: WS06[2]

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

Sample details

Sample name:	LoW Code:	
WS06[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m		
Moisture content:		
19% (dry weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<1	mg/kg	1.197	<1.197	mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				5.4	mg/kg	1.32	5.991	mg/kg	0.000599 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				1.3	mg/kg	2.775	3.032	mg/kg	0.000303 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.192	mg/kg	0.0000192 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25	mg/kg	1.462	30.705	mg/kg	0.00307 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	23.653	mg/kg	0.00237 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	12	mg/kg	1.56	15.729	mg/kg	0.00101 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.41	mg/kg	1.5	0.517	mg/kg	0.0000517 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				36	mg/kg	2.976	90.038	mg/kg	0.009 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				64	mg/kg	1.968	105.863	mg/kg	0.0106 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH PH				7.6 pH		7.6 pH	7.6 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene 201-581-5	85-01-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene 205-912-4	206-44-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene 204-927-3	129-00-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0338 %		

Key

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

Classification of sample: WS07

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

Sample details

Sample name:	LoW Code:	
WS07	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.7 m		
Moisture content:		
5.9% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 5.9% Dry Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.8	mg/kg	1.197	2.035	mg/kg	0.000203 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				5.2	mg/kg	1.32	6.483	mg/kg	0.000648 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.39	mg/kg	2.775	1.022	mg/kg	0.000102 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.324	mg/kg	0.0000324 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	17.942	mg/kg	0.00179 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				17	mg/kg	1.126	18.074	mg/kg	0.00181 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	8.5	mg/kg	1.56	12.52	mg/kg	0.000803 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<0.25	mg/kg	1.5	<0.375	mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				20	mg/kg	2.976	56.209	mg/kg	0.00562 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				41	mg/kg	1.968	76.208	mg/kg	0.00762 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<58.804	mg/kg		<58.804	mg/kg	<0.00588 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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							
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
20	pH		PH		8.7 pH		8.7 pH	8.7 pH		
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
33	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
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
35	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
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0254 %		

Key

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

Classification of sample: WS07[2]

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

Sample details

Sample name:	LoW Code:	
WS07[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.9 m		
Moisture content:		
18% (dry weight correction)		

Hazard properties


None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				1.7	mg/kg	1.197	1.725	mg/kg	0.000172 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				4.7	mg/kg	1.32	5.259	mg/kg	0.000526 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.39	mg/kg	2.775	0.917	mg/kg	0.0000917 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.5	mg/kg	1.462	11.767	mg/kg	0.00118 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	15.266	mg/kg	0.00153 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	8.8	mg/kg	1.56	11.633	mg/kg	0.000746 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				0.3	mg/kg	1.5	0.381	mg/kg	0.0000381 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				12	mg/kg	2.976	30.267	mg/kg	0.00303 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				35	mg/kg	1.968	58.385	mg/kg	0.00584 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				29	mg/kg		24.576	mg/kg	0.00246 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									

#	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								
18	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD	
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
20	pH		PH		7.9 pH		7.9 pH	7.9 pH			
21	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
22	acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
23	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
24	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
25	phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
26	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
27	fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
28	pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
29	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
30	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
31	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
32	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
33	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	
34	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
35	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	
36	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
Total:									0.0165 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00246%)

Classification of sample: WS08



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

Sample details

Sample name:	LoW Code:	
WS08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.3 m		
Moisture content:		
6.5% (dry weight correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.144%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.144%)


Determinands

Moisture content: 6.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				3.2 mg/kg	1.32	3.967 mg/kg	0.000397 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.06 mg/kg	2.775	<0.167 mg/kg	<0.0000167 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.4 mg/kg	1.142	0.429 mg/kg	0.0000429 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				4.2 mg/kg	1.462	5.764 mg/kg	0.000576 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				7 mg/kg	1.126	7.4 mg/kg	0.00074 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	1.9 mg/kg	1.56	2.783 mg/kg	0.000178 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							

#	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							
10	molybdenum { molybdenum(VI) oxide }				0.37 mg/kg	1.5	0.521 mg/kg	0.0000521 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				2.9 mg/kg	2.976	8.104 mg/kg	0.00081 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				21 mg/kg	1.968	38.813 mg/kg	0.00388 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				1533.9 mg/kg		1440.282 mg/kg	0.144 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH				8.9 pH		8.9 pH	8.9 pH		
			PH							
21	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	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							
34	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
35	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							
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.152 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.144%)

EVALUATION VERSION

Classification of sample: WS08[2]

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

Sample details

Sample name:	LoW Code:	
WS08[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.8 m		
Moisture content:		
7.2% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 7.2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				3.9 mg/kg	1.32	4.803 mg/kg	0.00048 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.32 mg/kg	2.775	0.828 mg/kg	0.0000828 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.213 mg/kg	0.0000213 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13 mg/kg	1.462	17.724 mg/kg	0.00177 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	14.704 mg/kg	0.00147 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	9.5 mg/kg	1.56	13.823 mg/kg	0.000886 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				0.27 mg/kg	1.5	0.378 mg/kg	0.0000378 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				13 mg/kg	2.976	36.093 mg/kg	0.00361 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				56 mg/kg	1.968	102.827 mg/kg	0.0103 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				200.2 mg/kg		186.754 mg/kg	0.0187 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							

#	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							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH				8.7 pH		8.7 pH	8.7 pH		
			PH							
21	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				0.07 mg/kg		0.0653 mg/kg	0.0000653 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.07 mg/kg		0.0653 mg/kg	0.0000653 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	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							
34	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
35	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							
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.0383 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration 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: **WS09**

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

Sample details

Sample name:	LoW Code:
WS09	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.8 m	
Moisture content:	
4.9% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 4.9% Dry Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				4.6 mg/kg	1.32	5.79 mg/kg	0.000579 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.35 mg/kg	2.775	0.926 mg/kg	0.0000926 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.327 mg/kg	0.0000327 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13 mg/kg	1.462	18.113 mg/kg	0.00181 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				17 mg/kg	1.126	18.246 mg/kg	0.00182 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	4.3 mg/kg	1.56	6.394 mg/kg	0.00041 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.25 mg/kg	1.5	<0.375 mg/kg	<0.0000375 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				19 mg/kg	2.976	53.908 mg/kg	0.00539 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				34 mg/kg	1.968	63.799 mg/kg	0.00638 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				<58.804 mg/kg		<58.804 mg/kg	<0.00588 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							

#	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							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH				8.7 pH		8.7 pH	8.7 pH		
			PH							
21	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	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							
34	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
35	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							
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.0234 %		

Key

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

Classification of sample: WS10

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

Sample details

Sample name:	LoW Code:
WS10	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:
1 m	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content:	
5.7% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				17 mg/kg	1.32	21.235 mg/kg	0.00212 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.78 mg/kg	2.775	2.048 mg/kg	0.000205 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	24.889 mg/kg	0.00249 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				30 mg/kg	1.126	31.955 mg/kg	0.0032 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	10 mg/kg	1.56	14.757 mg/kg	0.000946 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				0.73 mg/kg	1.5	1.036 mg/kg	0.000104 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				27 mg/kg	2.976	76.026 mg/kg	0.0076 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				49 mg/kg	1.968	91.25 mg/kg	0.00913 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				<58.804 mg/kg		<58.804 mg/kg	<0.00588 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							

#	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							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH				9 pH		9 pH	9pH		
			PH							
21	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	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							
34	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
35	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							
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.0327 %		

Key

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

Classification of sample: **WS10[2]**

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

Sample details

Sample name:	LoW Code:	
WS10[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.5 m		
Moisture content:		
17% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				6.3 mg/kg	1.197	6.446 mg/kg	0.000645 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				77 mg/kg	1.32	86.893 mg/kg	0.00869 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				2.9 mg/kg	2.775	6.879 mg/kg	0.000688 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				32 mg/kg	1.462	39.974 mg/kg	0.004 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				79 mg/kg	1.126	76.022 mg/kg	0.0076 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	40 mg/kg	1.56	53.327 mg/kg	0.00342 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				2.6 mg/kg	1.5	3.334 mg/kg	0.000333 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				42 mg/kg	2.976	106.84 mg/kg	0.0107 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				74 mg/kg	1.968	124.497 mg/kg	0.0124 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				<58.804 mg/kg		<58.804 mg/kg	<0.00588 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							

#	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							
18	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
20	pH				9 pH		9 pH	9pH		
			PH							
21	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	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							
34	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
35	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							
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.0552 %		

Key

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

Classification of sample: WS-G08A

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

Sample details

Sample name:	LoW Code:	
WS-G08A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				21 mg/kg	1.126	23.644 mg/kg	0.00236 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	34 mg/kg	1.56	53.034 mg/kg	0.0034 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				20 mg/kg	2.976	59.525 mg/kg	0.00595 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				61 mg/kg	1.968	120.072 mg/kg	0.012 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				43 mg/kg		43 mg/kg	0.0043 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.72	pH		8.72	pH	8.72 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.39	mg/kg		0.39	mg/kg	0.000039 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.38	mg/kg		0.38	mg/kg	0.000038 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.21	mg/kg		0.21	mg/kg	0.000021 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0324 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: WS-N01

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

Sample details

Sample name:	LoW Code:	
WS-N01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				4 mg/kg	1.32	5.281 mg/kg	0.000528 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19 mg/kg	1.462	27.77 mg/kg	0.00278 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				34 mg/kg	1.126	38.28 mg/kg	0.00383 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	37 mg/kg	1.56	57.713 mg/kg	0.0037 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				21 mg/kg	2.976	62.502 mg/kg	0.00625 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				61 mg/kg	1.968	120.072 mg/kg	0.012 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				45 mg/kg		45 mg/kg	0.0045 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.46	pH		8.46	pH	8.46 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.21	mg/kg		0.21	mg/kg	0.000021 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.25	mg/kg		0.25	mg/kg	0.000025 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0355 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0045%)

Classification of sample: WS-N02A

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

Sample details

Sample name:	LoW Code:	
WS-N02A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				7 mg/kg	1.32	9.242 mg/kg	0.000924 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				1.6 mg/kg	1.142	1.828 mg/kg	0.000183 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16 mg/kg	1.462	23.385 mg/kg	0.00234 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	21 mg/kg	1.56	32.756 mg/kg	0.0021 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				14 mg/kg	2.976	41.668 mg/kg	0.00417 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				122 mg/kg	1.968	240.144 mg/kg	0.024 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				17 mg/kg		17 mg/kg	0.0017 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.94	pH		8.94	pH	8.94 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
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 Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0017%)

Classification of sample: WS-N02B

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

Sample details

Sample name:	LoW Code:	
WS-N02B	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.9 mg/kg	1.142	1.028 mg/kg	0.000103 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16 mg/kg	1.462	23.385 mg/kg	0.00234 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				37 mg/kg	1.126	41.658 mg/kg	0.00417 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	46 mg/kg	1.56	71.751 mg/kg	0.0046 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				25 mg/kg	2.976	74.407 mg/kg	0.00744 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				155 mg/kg	1.968	305.101 mg/kg	0.0305 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				21 mg/kg		21 mg/kg	0.0021 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.47	pH		8.47	pH	8.47 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0532 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0021%)

Classification of sample: WS-N03

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

Sample details

Sample name:	LoW Code:	
WS-N03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				2 mg/kg	1.142	2.285 mg/kg	0.000228 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12 mg/kg	1.462	17.539 mg/kg	0.00175 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	26 mg/kg	1.56	40.555 mg/kg	0.0026 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				16 mg/kg	2.976	47.62 mg/kg	0.00476 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				46 mg/kg	1.968	90.546 mg/kg	0.00905 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				14 mg/kg		14 mg/kg	0.0014 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.45	pH		6.45	pH	6.45 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0236 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0014%)

Classification of sample: WS-N04

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

Sample details

Sample name:	LoW Code:	
WS-N04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				17 mg/kg	1.32	22.446 mg/kg	0.00224 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.6 mg/kg	2.775	1.665 mg/kg	0.000167 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	26.308 mg/kg	0.00263 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				47 mg/kg	1.126	52.917 mg/kg	0.00529 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	117 mg/kg	1.56	182.498 mg/kg	0.0117 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				6 mg/kg	1.5	9.001 mg/kg	0.0009 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				18 mg/kg	2.976	53.573 mg/kg	0.00536 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				84 mg/kg	1.968	165.345 mg/kg	0.0165 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				294 mg/kg		294 mg/kg	0.0294 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.86	pH		5.86	pH	5.86 pH		
			PH									
21	naphthalene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		205-917-1	208-96-8									
23	acenaphthene				0.36	mg/kg		0.36	mg/kg	0.000036 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				2.5	mg/kg		2.5	mg/kg	0.00025 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.67	mg/kg		0.67	mg/kg	0.000067 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				5.85	mg/kg		5.85	mg/kg	0.000585 %	✓	
		205-912-4	206-44-0									
28	pyrene				5.36	mg/kg		5.36	mg/kg	0.000536 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				2.85	mg/kg		2.85	mg/kg	0.000285 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				2.96	mg/kg		2.96	mg/kg	0.000296 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				3.21	mg/kg		3.21	mg/kg	0.000321 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				1.24	mg/kg		1.24	mg/kg	0.000124 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				2.71	mg/kg		2.71	mg/kg	0.000271 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				1.46	mg/kg		1.46	mg/kg	0.000146 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.31	mg/kg		0.31	mg/kg	0.000031 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				1.16	mg/kg		1.16	mg/kg	0.000116 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0787 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0294%)

Classification of sample: WS-N04A

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

Sample details

Sample name:	LoW Code:	
WS-N04A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10 mg/kg	1.462	14.616 mg/kg	0.00146 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				4 mg/kg	1.126	4.504 mg/kg	0.00045 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	5 mg/kg	1.56	7.799 mg/kg	0.0005 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				4.66 mg/kg	1.353	6.307 mg/kg	0.000631 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				7 mg/kg	2.976	20.834 mg/kg	0.00208 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				32 mg/kg	1.968	62.989 mg/kg	0.0063 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				322 mg/kg		322 mg/kg	0.0322 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.84	pH		5.84	pH	5.84 pH		
			PH									
21	naphthalene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		205-917-1	208-96-8									
23	acenaphthene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				1.3	mg/kg		1.3	mg/kg	0.00013 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.31	mg/kg		0.31	mg/kg	0.000031 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				1.67	mg/kg		1.67	mg/kg	0.000167 %	✓	
		205-912-4	206-44-0									
28	pyrene				1.76	mg/kg		1.76	mg/kg	0.000176 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				1.06	mg/kg		1.06	mg/kg	0.000106 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				1.24	mg/kg		1.24	mg/kg	0.000124 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				1.76	mg/kg		1.76	mg/kg	0.000176 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.56	mg/kg		0.56	mg/kg	0.000056 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				1.53	mg/kg		1.53	mg/kg	0.000153 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				1.06	mg/kg		1.06	mg/kg	0.000106 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.9	mg/kg		0.9	mg/kg	0.00009 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0469 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0322%)

Classification of sample: WS-N04A[2]

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

Sample details

Sample name:	LoW Code:	
WS-N04A[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✔	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %	✔	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12 mg/kg	1.462	17.539 mg/kg	0.00175 %	✔	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				5 mg/kg	1.126	5.629 mg/kg	0.000563 %	✔	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	6 mg/kg	1.56	9.359 mg/kg	0.0006 %	✔	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				4.81 mg/kg	1.353	6.51 mg/kg	0.000651 %	✔	
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				8 mg/kg	2.976	23.81 mg/kg	0.00238 %	✔	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				36 mg/kg	1.968	70.862 mg/kg	0.00709 %	✔	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				25 mg/kg		25 mg/kg	0.0025 %	✔	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.9	pH		5.9	pH	5.9 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0175 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0025%)

Classification of sample: WS-N05

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

Sample details

Sample name:	LoW Code:	
WS-N05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9 mg/kg	1.462	13.154 mg/kg	0.00132 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				1 mg/kg	1.126	1.126 mg/kg	0.000113 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	<1 mg/kg	1.56	<1.56 mg/kg	<0.0001 %		<LOD
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				6.37 mg/kg	1.353	8.622 mg/kg	0.000862 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				2 mg/kg	2.976	5.953 mg/kg	0.000595 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				1 mg/kg	2.554	2.554 mg/kg	0.000255 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				<5 mg/kg	1.968	<9.842 mg/kg	<0.000984 %		<LOD
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				3 mg/kg		3 mg/kg	0.0003 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.03	pH		5.03	pH	5.03 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0061 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0003%)

Classification of sample: WS-N05A

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

Sample details

Sample name:	LoW Code:	
WS-N05A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.9 mg/kg	2.775	2.498 mg/kg	0.00025 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26 mg/kg	1.462	38 mg/kg	0.0038 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				22 mg/kg	1.126	24.77 mg/kg	0.00248 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	13 mg/kg	1.56	20.278 mg/kg	0.0013 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				27 mg/kg	2.976	80.359 mg/kg	0.00804 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				45 mg/kg	1.968	88.578 mg/kg	0.00886 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				17 mg/kg		17 mg/kg	0.0017 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.34	pH		5.34	pH	5.34 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0281 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0017%)

Classification of sample: WS-N06

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

Sample details

Sample name:	LoW Code:	
WS-N06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				19 mg/kg	1.32	25.086 mg/kg	0.00251 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.8 mg/kg	2.775	2.22 mg/kg	0.000222 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.9 mg/kg	1.142	1.028 mg/kg	0.000103 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16 mg/kg	1.462	23.385 mg/kg	0.00234 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				44 mg/kg	1.126	49.539 mg/kg	0.00495 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	123 mg/kg	1.56	191.857 mg/kg	0.0123 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.31 mg/kg	1.353	0.42 mg/kg	0.000042 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				3 mg/kg	1.5	4.501 mg/kg	0.00045 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				22 mg/kg	2.976	65.478 mg/kg	0.00655 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				85 mg/kg	1.968	167.314 mg/kg	0.0167 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				284 mg/kg		284 mg/kg	0.0284 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.43	pH		5.43	pH	5.43 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.47	mg/kg		0.47	mg/kg	0.000047 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				1.07	mg/kg		1.07	mg/kg	0.000107 %	✓	
		205-912-4	206-44-0									
28	pyrene				1.06	mg/kg		1.06	mg/kg	0.000106 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.42	mg/kg		0.42	mg/kg	0.000042 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.43	mg/kg		0.43	mg/kg	0.000043 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.41	mg/kg		0.41	mg/kg	0.000041 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0764 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0284%)

Classification of sample: WS-N06A

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

Sample details

Sample name:	LoW Code:
WS-N06A	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m	

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				2 mg/kg	2.775	5.551 mg/kg	0.000555 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				57 mg/kg	1.462	83.309 mg/kg	0.00833 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				40 mg/kg	1.126	45.036 mg/kg	0.0045 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	19 mg/kg	1.56	29.636 mg/kg	0.0019 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				1.36 mg/kg	1.353	1.841 mg/kg	0.000184 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				57 mg/kg	2.976	169.647 mg/kg	0.017 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				44 mg/kg	1.968	86.609 mg/kg	0.00866 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				29 mg/kg		29 mg/kg	0.0029 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.87	pH		5.87	pH	5.87 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0457 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: WS-N07

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

Sample details

Sample name:	LoW Code:
WS-N07	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:
0.2 m	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				12 mg/kg	1.32	15.844 mg/kg	0.00158 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				1 mg/kg	2.775	2.775 mg/kg	0.000278 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				1.7 mg/kg	1.142	1.942 mg/kg	0.000194 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25 mg/kg	1.462	36.539 mg/kg	0.00365 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				44 mg/kg	1.126	49.539 mg/kg	0.00495 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	96 mg/kg	1.56	149.742 mg/kg	0.0096 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				2 mg/kg	1.5	3 mg/kg	0.0003 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				23 mg/kg	2.976	68.454 mg/kg	0.00685 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				101 mg/kg	1.968	198.808 mg/kg	0.0199 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				79 mg/kg		79 mg/kg	0.0079 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.82	pH		6.82	pH	6.82 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.29	mg/kg		0.29	mg/kg	0.000029 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.43	mg/kg		0.43	mg/kg	0.000043 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.21	mg/kg		0.21	mg/kg	0.000021 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0568 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0079%)

Classification of sample: WS-N08

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

Sample details

Sample name:	LoW Code:	
WS-N08	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				8 mg/kg	1.32	10.563 mg/kg	0.00106 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				1.2 mg/kg	1.142	1.371 mg/kg	0.000137 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22 mg/kg	1.462	32.154 mg/kg	0.00322 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				34 mg/kg	1.126	38.28 mg/kg	0.00383 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	60 mg/kg	1.56	93.589 mg/kg	0.006 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				16 mg/kg	2.976	47.62 mg/kg	0.00476 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				84 mg/kg	1.968	165.345 mg/kg	0.0165 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				43 mg/kg		43 mg/kg	0.0043 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.28	pH		6.28	pH	6.28 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.53	mg/kg		0.53	mg/kg	0.000053 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.51	mg/kg		0.51	mg/kg	0.000051 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.45	mg/kg		0.45	mg/kg	0.000045 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0418 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: WS-N09

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

Sample details

Sample name:	LoW Code:	
WS-N09	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				12 mg/kg	1.32	15.844 mg/kg	0.00158 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.6 mg/kg	2.775	1.665 mg/kg	0.000167 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.5 mg/kg	1.142	0.571 mg/kg	0.0000571 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				10 mg/kg	1.462	14.616 mg/kg	0.00146 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				43 mg/kg	1.126	48.413 mg/kg	0.00484 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	84 mg/kg	1.56	131.024 mg/kg	0.0084 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.27 mg/kg	1.353	0.365 mg/kg	0.0000365 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				12 mg/kg	2.976	35.715 mg/kg	0.00357 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				2 mg/kg	2.554	5.108 mg/kg	0.000511 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				72 mg/kg	1.968	141.725 mg/kg	0.0142 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				428 mg/kg		428 mg/kg	0.0428 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1	mg/kg	1.884	1.884	mg/kg	0.000188 %	✓	
	006-007-00-5											
20	pH				5.75	pH		5.75	pH	5.75 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.21	mg/kg		0.21	mg/kg	0.000021 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0789 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0428%)

Classification of sample: WS-N10

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

Sample details

Sample name:	LoW Code:	
WS-N10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				17 mg/kg	1.32	22.446 mg/kg	0.00224 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.9 mg/kg	2.775	2.498 mg/kg	0.00025 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				1.7 mg/kg	1.142	1.942 mg/kg	0.000194 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20 mg/kg	1.462	29.231 mg/kg	0.00292 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				47 mg/kg	1.126	52.917 mg/kg	0.00529 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	122 mg/kg	1.56	190.297 mg/kg	0.0122 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				2 mg/kg	1.5	3 mg/kg	0.0003 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				17 mg/kg	2.976	50.597 mg/kg	0.00506 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				131 mg/kg	1.968	257.86 mg/kg	0.0258 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				197 mg/kg		197 mg/kg	0.0197 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20	pH PH				7.11	pH		7.11	pH	7.11 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
24	fluorene 201-695-5 86-73-7				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
25	phenanthrene 201-581-5 85-01-8				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
26	anthracene 204-371-1 120-12-7				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
27	fluoranthene 205-912-4 206-44-0				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
28	pyrene 204-927-3 129-00-0				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
30	chrysene 601-048-00-0 205-923-4 218-01-9				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
34	indeno[123-cd]pyrene 205-893-2 193-39-5				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:										0.0754 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0197%)

Classification of sample: WS-N10[2]

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

Sample details

Sample name:	LoW Code:	
WS-N10[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7 mg/kg	1.462	10.231 mg/kg	0.00102 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				11 mg/kg	1.126	12.385 mg/kg	0.00124 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	5 mg/kg	1.56	7.799 mg/kg	0.0005 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				8 mg/kg	2.976	23.81 mg/kg	0.00238 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				20 mg/kg	1.968	39.368 mg/kg	0.00394 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				2 mg/kg		2 mg/kg	0.0002 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.6	pH		6.6	pH	6.6 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0113 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0002%)

Classification of sample: WS-N11



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

Sample details

Sample name:	LoW Code:
WS-N11	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.117%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.117%)

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				11 mg/kg	1.32	14.524 mg/kg	0.00145 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.9 mg/kg	2.775	2.498 mg/kg	0.00025 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				0.9 mg/kg	1.142	1.028 mg/kg	0.000103 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				31 mg/kg	1.462	45.308 mg/kg	0.00453 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				63 mg/kg	1.126	70.931 mg/kg	0.00709 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	127 mg/kg	1.56	198.097 mg/kg	0.0127 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				2 mg/kg	1.5	3 mg/kg	0.0003 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				25 mg/kg	2.976	74.407 mg/kg	0.00744 %	✓	
	028-035-00-7	238-766-5	14721-18-7							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
12	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
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				99	mg/kg	1.968	194.871	mg/kg	0.0195 %	✓	
14	TPH (C6 to C40) petroleum group TPH				1172	mg/kg		1172	mg/kg	0.117 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20	pH PH				8.07	pH		8.07	pH	8.07 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
24	fluorene 201-695-5 86-73-7				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
25	phenanthrene 201-581-5 85-01-8				0.4	mg/kg		0.4	mg/kg	0.00004 %	✓	
26	anthracene 204-371-1 120-12-7				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
27	fluoranthene 205-912-4 206-44-0				0.78	mg/kg		0.78	mg/kg	0.000078 %	✓	
28	pyrene 204-927-3 129-00-0				0.77	mg/kg		0.77	mg/kg	0.000077 %	✓	
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				0.43	mg/kg		0.43	mg/kg	0.000043 %	✓	
30	chrysene 601-048-00-0 205-923-4 218-01-9				0.44	mg/kg		0.44	mg/kg	0.000044 %	✓	
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.49	mg/kg		0.49	mg/kg	0.000049 %	✓	
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.45	mg/kg		0.45	mg/kg	0.000045 %	✓	
34	indeno[123-cd]pyrene 205-893-2 193-39-5				0.29	mg/kg		0.29	mg/kg	0.000029 %	✓	
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
36	benzo[ghi]perylene 205-883-8 191-24-2				0.29	mg/kg		0.29	mg/kg	0.000029 %	✓	
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:										0.172 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
☞	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.117%)

EVALUATION VERSION

Classification of sample: WS-N11[2]

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

Sample details

Sample name:	LoW Code:	
WS-N11[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				117	mg/kg	1.197	140.061	mg/kg	0.014 %	✓	
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				287	mg/kg	1.32	378.933	mg/kg	0.0379 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				1.4	mg/kg	1.142	1.599	mg/kg	0.00016 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				537	mg/kg	1.462	784.855	mg/kg	0.0785 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				124	mg/kg	1.126	139.61	mg/kg	0.014 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	480	mg/kg	1.56	748.711	mg/kg	0.048 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				0.52	mg/kg	1.353	0.704	mg/kg	0.0000704 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				2	mg/kg	1.5	3	mg/kg	0.0003 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				19	mg/kg	2.976	56.549	mg/kg	0.00565 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				165	mg/kg	1.968	324.785	mg/kg	0.0325 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				182	mg/kg		182	mg/kg	0.0182 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				118	mg/kg	1.884	222.312	mg/kg	0.0222 %	✓	
20	pH PH				7.83	pH		7.83	pH	7.83 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				0.39	mg/kg		0.39	mg/kg	0.000039 %	✓	
22	acenaphthylene 205-917-1 208-96-8				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
23	acenaphthene 201-469-6 83-32-9				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
24	fluorene 201-695-5 86-73-7				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
25	phenanthrene 201-581-5 85-01-8				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
26	anthracene 204-371-1 120-12-7				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
27	fluoranthene 205-912-4 206-44-0				0.28	mg/kg		0.28	mg/kg	0.000028 %	✓	
28	pyrene 204-927-3 129-00-0				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
30	chrysene 601-048-00-0 205-923-4 218-01-9				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.25	mg/kg		0.25	mg/kg	0.000025 %	✓	
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
34	indeno[123-cd]pyrene 205-893-2 193-39-5				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:										0.272 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0182%)

Classification of sample: WS-N12

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

Sample details

Sample name:	LoW Code:	
WS-N12	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	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 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16	mg/kg	1.126	18.014	mg/kg	0.0018 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23	mg/kg	1.56	35.876	mg/kg	0.0023 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13	mg/kg	2.976	38.691	mg/kg	0.00387 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		47	mg/kg	1.968	92.515	mg/kg	0.00925 %	✓
14	TPH (C6 to C40) petroleum group			TPH		46	mg/kg		46	mg/kg	0.0046 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.27	pH		6.27	pH	6.27 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0257 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0046%)

Classification of sample: WS-N12C



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

Sample details

Sample name:	LoW Code:	
WS-N12C	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	3 mg/kg	1.32	3.961 mg/kg	0.000396 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	8 mg/kg	1.462	11.692 mg/kg	0.00117 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	11 mg/kg	1.126	12.385 mg/kg	0.00124 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	7 mg/kg	1.56	10.919 mg/kg	0.0007 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	13 mg/kg	2.976	38.691 mg/kg	0.00387 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	35 mg/kg	1.968	68.894 mg/kg	0.00689 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	12 mg/kg		12 mg/kg	0.0012 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.76	pH		6.76	pH	6.76 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0172 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: WS-N12C[2]

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

Sample details

Sample name:	LoW Code:	
WS-N12C[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				1.3	mg/kg	1.142	1.485	mg/kg	0.000149 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7	mg/kg	1.462	10.231	mg/kg	0.00102 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	14.637	mg/kg	0.00146 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	8	mg/kg	1.56	12.479	mg/kg	0.0008 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				28	mg/kg	2.976	83.335	mg/kg	0.00833 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				6	mg/kg	2.554	15.323	mg/kg	0.00153 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				50	mg/kg	1.968	98.42	mg/kg	0.00984 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				<12.02	mg/kg		<12.02	mg/kg	<0.0012 %		<LOD
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg		<0.000188 %		<LOD
20	pH PH				6.76 pH		6.76 pH		6.76 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
24	fluorene 201-695-5 86-73-7				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
25	phenanthrene 201-581-5 85-01-8				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
26	anthracene 204-371-1 120-12-7				<0.02 mg/kg		<0.02 mg/kg		<0.000002 %		<LOD
27	fluoranthene 205-912-4 206-44-0				<0.08 mg/kg		<0.08 mg/kg		<0.000008 %		<LOD
28	pyrene 204-927-3 129-00-0				<0.07 mg/kg		<0.07 mg/kg		<0.000007 %		<LOD
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
30	chrysene 601-048-00-0 205-923-4 218-01-9				<0.06 mg/kg		<0.06 mg/kg		<0.000006 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07 mg/kg		<0.07 mg/kg		<0.000007 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
34	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2 mg/kg		<0.2 mg/kg		<0.00002 %		<LOD
Total:									0.0259 %		

Key

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

Classification of sample: WS-N13

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

Sample details

Sample name:	LoW Code:	
WS-N13	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4	mg/kg	1.32	5.281	mg/kg	0.000528 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.8	mg/kg	1.142	2.056	mg/kg	0.000206 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13	mg/kg	1.462	19	mg/kg	0.0019 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		33	mg/kg	1.126	37.154	mg/kg	0.00372 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	65	mg/kg	1.56	101.388	mg/kg	0.0065 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.976	53.573	mg/kg	0.00536 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		66	mg/kg	1.968	129.914	mg/kg	0.013 %	✓
14	TPH (C6 to C40) petroleum group			TPH		104	mg/kg		104	mg/kg	0.0104 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.93	pH		6.93	pH	6.93 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.35	mg/kg		0.35	mg/kg	0.000035 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.71	mg/kg		0.71	mg/kg	0.000071 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.68	mg/kg		0.68	mg/kg	0.000068 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.34	mg/kg		0.34	mg/kg	0.000034 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.44	mg/kg		0.44	mg/kg	0.000044 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.33	mg/kg		0.33	mg/kg	0.000033 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.16	mg/kg		0.16	mg/kg	0.000016 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0436 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0104%)

Classification of sample: WS-N14

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

Sample details

Sample name:	LoW Code:	
WS-N14	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2.4	mg/kg	1.142	2.742	mg/kg	0.000274 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29	mg/kg	1.126	32.651	mg/kg	0.00327 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	77	mg/kg	1.56	120.106	mg/kg	0.0077 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	41.668	mg/kg	0.00417 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		59	mg/kg	1.968	116.135	mg/kg	0.0116 %	✓
14	TPH (C6 to C40) petroleum group			TPH		47	mg/kg		47	mg/kg	0.0047 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.67	pH		5.67	pH	5.67 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.01	mg/kg		0.01	mg/kg	0.000001 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.19	mg/kg		0.19	mg/kg	0.000019 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.37	mg/kg		0.37	mg/kg	0.000037 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.36	mg/kg		0.36	mg/kg	0.000036 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.22	mg/kg		0.22	mg/kg	0.000022 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.27	mg/kg		0.27	mg/kg	0.000027 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.31	mg/kg		0.31	mg/kg	0.000031 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0374 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0047%)

Classification of sample: WS-N15

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

Sample details

Sample name:	LoW Code:	
WS-N15	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				8 mg/kg	1.32	10.563 mg/kg	0.00106 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
4	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				29 mg/kg	1.126	32.651 mg/kg	0.00327 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	64 mg/kg	1.56	99.828 mg/kg	0.0064 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				13 mg/kg	2.976	38.691 mg/kg	0.00387 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { trizinc bis(orthophosphate) }				73 mg/kg	1.968	143.693 mg/kg	0.0144 %	✓	
	030-011-00-6	231-944-3	7779-90-0							
14	TPH (C6 to C40) petroleum group				27 mg/kg		27 mg/kg	0.0027 %	✓	
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
16	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.89	pH		6.89	pH	6.89 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %	✓	
		201-469-6	83-32-9									
24	fluorene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-695-5	86-73-7									
25	phenanthrene				0.32	mg/kg		0.32	mg/kg	0.000032 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				0.51	mg/kg		0.51	mg/kg	0.000051 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.46	mg/kg		0.46	mg/kg	0.000046 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.25	mg/kg		0.25	mg/kg	0.000025 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.26	mg/kg		0.26	mg/kg	0.000026 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.24	mg/kg		0.24	mg/kg	0.000024 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0358 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0027%)

Classification of sample: **WS-N16**

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

Sample details

Sample name:	WS-N16	LoW Code:	
Sample Depth:	0.2 m	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: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	1 mg/kg	1.142	1.142 mg/kg	0.000114 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	21 mg/kg	1.462	30.693 mg/kg	0.00307 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	22 mg/kg	1.126	24.77 mg/kg	0.00248 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	12 mg/kg	1.56	18.718 mg/kg	0.0012 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	28 mg/kg	2.976	83.335 mg/kg	0.00833 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	62 mg/kg	1.968	122.041 mg/kg	0.0122 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	15 mg/kg		15 mg/kg	0.0015 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.12	pH		8.12	pH	8.12 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0308 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: WS-P01

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

Sample details

Sample name:	LoW Code:	
WS-P01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1.3 mg/kg	2.775	3.608 mg/kg	0.000361 %	✓	
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	37 mg/kg	1.462	54.078 mg/kg	0.00541 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	32 mg/kg	1.126	36.028 mg/kg	0.0036 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	17 mg/kg	1.56	26.517 mg/kg	0.0017 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	36 mg/kg	2.976	107.146 mg/kg	0.0107 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	62 mg/kg	1.968	122.041 mg/kg	0.0122 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	10 mg/kg		10 mg/kg	0.001 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.55	pH		5.55	pH	5.55 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0367 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.001%)

Classification of sample: WS-P02

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

Sample details

Sample name:	LoW Code:	
WS-P02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.8	mg/kg	2.775	2.22	mg/kg	0.000222 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32	mg/kg	1.126	36.028	mg/kg	0.0036 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	69	mg/kg	1.56	107.627	mg/kg	0.0069 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3	mg/kg	1.5	4.501	mg/kg	0.00045 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.976	41.668	mg/kg	0.00417 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		54	mg/kg	1.968	106.293	mg/kg	0.0106 %	✓
14	TPH (C6 to C40) petroleum group			TPH		173	mg/kg		173	mg/kg	0.0173 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				5.33	pH		5.33	pH	5.33 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.15	mg/kg		0.15	mg/kg	0.000015 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0486 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0173%)

Classification of sample: WS-P03

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

Sample details

Sample name:	LoW Code:	
WS-P03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19	mg/kg	1.32	25.086	mg/kg	0.00251 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9	mg/kg	2.775	2.498	mg/kg	0.00025 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23	mg/kg	1.462	33.616	mg/kg	0.00336 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		51	mg/kg	1.126	57.42	mg/kg	0.00574 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	115	mg/kg	1.56	179.379	mg/kg	0.0115 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		3	mg/kg	1.5	4.501	mg/kg	0.00045 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19	mg/kg	2.976	56.549	mg/kg	0.00565 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		2	mg/kg	2.554	5.108	mg/kg	0.000511 %	✓
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		71	mg/kg	1.968	139.756	mg/kg	0.014 %	✓
14	TPH (C6 to C40) petroleum group			TPH		346	mg/kg		346	mg/kg	0.0346 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				3	mg/kg	1.884	5.652	mg/kg	0.000565 %	✓	
	006-007-00-5											
20	pH				5.49	pH		5.49	pH	5.49 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				0.02	mg/kg		0.02	mg/kg	0.000002 %	✓	
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.37	mg/kg		0.37	mg/kg	0.000037 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.35	mg/kg		0.35	mg/kg	0.000035 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0803 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0346%)

Classification of sample: WS-P04

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

Sample details

Sample name:	LoW Code:	
WS-P04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide } 051-005-00-X 215-175-0 1309-64-4				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				6	mg/kg	1.32	7.922	mg/kg	0.000792 %	✓	
3	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				18	mg/kg	1.462	26.308	mg/kg	0.00263 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				22	mg/kg	1.126	24.77	mg/kg	0.00248 %	✓	
8	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	48	mg/kg	1.56	74.871	mg/kg	0.0048 %	✓	
9	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide } 042-001-00-9 215-204-7 1313-27-5				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				12	mg/kg	2.976	35.715	mg/kg	0.00357 %	✓	
12	selenium { nickel selenate } 028-031-00-5 239-125-2 15060-62-5				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				44	mg/kg	1.968	86.609	mg/kg	0.00866 %	✓	
14	TPH (C6 to C40) petroleum group TPH				43	mg/kg		43	mg/kg	0.0043 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
20	pH				5.6 pH		5.6 pH	5.6 pH			
			PH								
21	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				0.05 mg/kg		0.05 mg/kg	0.000005 %		✓	
		201-581-5	85-01-8								
26	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.11 mg/kg		0.11 mg/kg	0.000011 %		✓	
		205-912-4	206-44-0								
28	pyrene				0.09 mg/kg		0.09 mg/kg	0.000009 %		✓	
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.07 mg/kg		0.07 mg/kg	0.000007 %		✓	
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
37	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.029 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported


Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: **WS-P06**

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

Sample details

Sample name:	LoW Code:	
WS-P06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	3 mg/kg	1.32	3.961 mg/kg	0.000396 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
5	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 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	18 mg/kg	1.126	20.266 mg/kg	0.00203 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	24 mg/kg	1.56	37.436 mg/kg	0.0024 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	13 mg/kg	2.976	38.691 mg/kg	0.00387 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	34 mg/kg	1.968	66.925 mg/kg	0.00669 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	207 mg/kg		207 mg/kg	0.0207 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				6.81	pH		6.81	pH	6.81 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0394 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0207%)

Classification of sample: WS-P09

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

Sample details

Sample name:	LoW Code:	
WS-P09	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.7	mg/kg	2.775	1.943	mg/kg	0.000194 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21	mg/kg	1.462	30.693	mg/kg	0.00307 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38	mg/kg	1.126	42.784	mg/kg	0.00428 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	81	mg/kg	1.56	126.345	mg/kg	0.0081 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1	mg/kg	1.5	1.5	mg/kg	0.00015 %	✓
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.976	47.62	mg/kg	0.00476 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		74	mg/kg	1.968	145.661	mg/kg	0.0146 %	✓
14	TPH (C6 to C40) petroleum group			TPH		120	mg/kg		120	mg/kg	0.012 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20	pH PH				6.83	pH		6.83	pH	6.83 pH		
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
23	acenaphthene 201-469-6 83-32-9				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
24	fluorene 201-695-5 86-73-7				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
25	phenanthrene 201-581-5 85-01-8				0.04	mg/kg		0.04	mg/kg	0.000004 %	✓	
26	anthracene 204-371-1 120-12-7				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
27	fluoranthene 205-912-4 206-44-0				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	pyrene 204-927-3 129-00-0				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
30	chrysene 601-048-00-0 205-923-4 218-01-9				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
34	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:										0.05 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: WS-P09[2]

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

Sample details

Sample name:	LoW Code:	
WS-P09[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
	051-005-00-X	215-175-0	1309-64-4									
2	arsenic { arsenic trioxide }				<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3									
3	beryllium { beryllium oxide }				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9									
4	cadmium { cadmium oxide }				0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14	mg/kg	1.462	20.462	mg/kg	0.00205 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	15.762	mg/kg	0.00158 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead chromate }			1	12	mg/kg	1.56	18.718	mg/kg	0.0012 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
9	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	molybdenum { molybdenum(VI) oxide }				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
	042-001-00-9	215-204-7	1313-27-5									
11	nickel { nickel chromate }				15	mg/kg	2.976	44.644	mg/kg	0.00446 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
12	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
13	zinc { trizinc bis(orthophosphate) }				34	mg/kg	1.968	66.925	mg/kg	0.00669 %	✓	
	030-011-00-6	231-944-3	7779-90-0									
14	TPH (C6 to C40) petroleum group				35	mg/kg		35	mg/kg	0.0035 %	✓	
			TPH									
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
16	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
17	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
18	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.73	pH		7.73	pH	7.73 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0213 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: WS-S01

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

Sample details

Sample name:	LoW Code:	
WS-S01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.65 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide } 051-005-00-X 215-175-0 1309-64-4				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				1	mg/kg	1.32	1.32	mg/kg	0.000132 %	✓	
3	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				0.7	mg/kg	1.142	0.8	mg/kg	0.00008 %	✓	
5	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 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				14	mg/kg	1.126	15.762	mg/kg	0.00158 %	✓	
8	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	3	mg/kg	1.56	4.679	mg/kg	0.0003 %	✓	
9	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide } 042-001-00-9 215-204-7 1313-27-5				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				18	mg/kg	2.976	53.573	mg/kg	0.00536 %	✓	
12	selenium { nickel selenate } 028-031-00-5 239-125-2 15060-62-5				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				30	mg/kg	1.968	59.052	mg/kg	0.00591 %	✓	
14	TPH (C6 to C40) petroleum group TPH				2	mg/kg		2	mg/kg	0.0002 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.17	pH		9.17	pH	9.17 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0171 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0002%)

Classification of sample: WS-S02

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

Sample details

Sample name:	LoW Code:	
WS-S02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		10	mg/kg	1.462	14.616	mg/kg	0.00146 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		3	mg/kg	1.126	3.378	mg/kg	0.000338 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	<1	mg/kg	1.56	<1.56	mg/kg	<0.0001 %	<LOD
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		6.63	mg/kg	1.353	8.974	mg/kg	0.000897 %	✓
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		6	mg/kg	2.976	17.858	mg/kg	0.00179 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		13	mg/kg	1.968	25.589	mg/kg	0.00256 %	✓
14	TPH (C6 to C40) petroleum group			TPH		94	mg/kg		94	mg/kg	0.0094 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.36	pH		9.36	pH	9.36 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0184 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0094%)

Classification of sample: WS-S02[2]

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

Sample details

Sample name:	LoW Code:	
WS-S02[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.1 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide } 051-005-00-X 215-175-0 1309-64-4				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				120	mg/kg	1.32	158.439	mg/kg	0.0158 %	✓	
3	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				2.6	mg/kg	2.775	7.216	mg/kg	0.000722 %	✓	
4	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				1.3	mg/kg	1.142	1.485	mg/kg	0.000149 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				36	mg/kg	1.462	52.616	mg/kg	0.00526 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				75	mg/kg	1.126	84.442	mg/kg	0.00844 %	✓	
8	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	44	mg/kg	1.56	68.632	mg/kg	0.0044 %	✓	
9	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				0.32	mg/kg	1.353	0.433	mg/kg	0.0000433 %	✓	
10	molybdenum { molybdenum(VI) oxide } 042-001-00-9 215-204-7 1313-27-5				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				43	mg/kg	2.976	127.979	mg/kg	0.0128 %	✓	
12	selenium { nickel selenate } 028-031-00-5 239-125-2 15060-62-5				3	mg/kg	2.554	7.662	mg/kg	0.000766 %	✓	
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				74	mg/kg	1.968	145.661	mg/kg	0.0146 %	✓	
14	TPH (C6 to C40) petroleum group TPH				2	mg/kg		2	mg/kg	0.0002 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.03	pH		9.03	pH	9.03 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.12	mg/kg		0.12	mg/kg	0.000012 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0645 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0002%)

Classification of sample: WS-S03

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

Sample details

Sample name:	LoW Code:	
WS-S03	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	<5 mg/kg	1.197	<5.986 mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %		<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.7 mg/kg	1.142	0.8 mg/kg	0.00008 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	9 mg/kg	1.462	13.154 mg/kg	0.00132 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	14 mg/kg	1.126	15.762 mg/kg	0.00158 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	8 mg/kg	1.56	12.479 mg/kg	0.0008 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5	<1 mg/kg	1.5	<1.5 mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	14 mg/kg	2.976	41.668 mg/kg	0.00417 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0	29 mg/kg	1.968	57.083 mg/kg	0.00571 %	✓	
14	TPH (C6 to C40) petroleum group			TPH	3 mg/kg		3 mg/kg	0.0003 %	✓	
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				9.07	pH		9.07	pH	9.07 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0157 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0003%)

Classification of sample: WS-S03[2]

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

Sample details

Sample name:	LoW Code:	
WS-S03[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.8 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %	<LOD
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14	mg/kg	1.462	20.462	mg/kg	0.00205 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7	mg/kg	1.126	7.881	mg/kg	0.000788 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12	mg/kg	1.56	18.718	mg/kg	0.0012 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.976	47.62	mg/kg	0.00476 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		37	mg/kg	1.968	72.831	mg/kg	0.00728 %	✓
14	TPH (C6 to C40) petroleum group			TPH		<12.02	mg/kg		<12.02	mg/kg	<0.0012 %	<LOD
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
20	pH PH				8.14 pH		8.14 pH	8.14 pH			
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
23	acenaphthene 201-469-6 83-32-9				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
24	fluorene 201-695-5 86-73-7				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
25	phenanthrene 201-581-5 85-01-8				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	anthracene 204-371-1 120-12-7				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
27	fluoranthene 205-912-4 206-44-0				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
28	pyrene 204-927-3 129-00-0				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
30	chrysene 601-048-00-0 205-923-4 218-01-9				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
34	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
Total:									0.0192 %		

Key

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

Classification of sample: WS-S04

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

Sample details

Sample name:	LoW Code:	
WS-S04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3	mg/kg	1.32	3.961	mg/kg	0.000396 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %	<LOD
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9	mg/kg	1.462	13.154	mg/kg	0.00132 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12	mg/kg	1.126	13.511	mg/kg	0.00135 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	22	mg/kg	1.56	34.316	mg/kg	0.0022 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9	mg/kg	2.976	26.786	mg/kg	0.00268 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		33	mg/kg	1.968	64.957	mg/kg	0.0065 %	✓
14	TPH (C6 to C40) petroleum group			TPH		25	mg/kg		25	mg/kg	0.0025 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.23	pH		7.23	pH	7.23 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.09	mg/kg		0.09	mg/kg	0.000009 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.06	mg/kg		0.06	mg/kg	0.000006 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
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 Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0025%)

Classification of sample: WS-S05

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

Sample details

Sample name:	LoW Code:	
WS-S05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	13.203	mg/kg	0.00132 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6	mg/kg	2.775	1.665	mg/kg	0.000167 %	✓
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.5	mg/kg	1.142	0.571	mg/kg	0.0000571 %	✓
5	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 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27	mg/kg	1.126	30.399	mg/kg	0.00304 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	66	mg/kg	1.56	102.948	mg/kg	0.0066 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12	mg/kg	2.976	35.715	mg/kg	0.00357 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1	mg/kg	2.554	2.554	mg/kg	0.000255 %	✓
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		54	mg/kg	1.968	106.293	mg/kg	0.0106 %	✓
14	TPH (C6 to C40) petroleum group			TPH		65	mg/kg		65	mg/kg	0.0065 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				7.21	pH		7.21	pH	7.21 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.14	mg/kg		0.14	mg/kg	0.000014 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				0.31	mg/kg		0.31	mg/kg	0.000031 %	✓	
		205-912-4	206-44-0									
28	pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.23	mg/kg		0.23	mg/kg	0.000023 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.25	mg/kg		0.25	mg/kg	0.000025 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.18	mg/kg		0.18	mg/kg	0.000018 %	✓	
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				0.11	mg/kg		0.11	mg/kg	0.000011 %	✓	
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0353 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0065%)

Classification of sample: WS-S06

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

Sample details

Sample name:	LoW Code:	
WS-S06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide } 051-005-00-X 215-175-0 1309-64-4				<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %		<LOD
2	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				2	mg/kg	1.32	2.641	mg/kg	0.000264 %	✓	
3	beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
4	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				9	mg/kg	1.462	13.154	mg/kg	0.00132 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex } 024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
7	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				9	mg/kg	1.126	10.133	mg/kg	0.00101 %	✓	
8	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	9	mg/kg	1.56	14.038	mg/kg	0.0009 %	✓	
9	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				4.77	mg/kg	1.353	6.456	mg/kg	0.000646 %	✓	
10	molybdenum { molybdenum(VI) oxide } 042-001-00-9 215-204-7 1313-27-5				<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %		<LOD
11	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				9	mg/kg	2.976	26.786	mg/kg	0.00268 %	✓	
12	selenium { nickel selenate } 028-031-00-5 239-125-2 15060-62-5				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
13	zinc { trizinc bis(orthophosphate) } 030-011-00-6 231-944-3 7779-90-0				34	mg/kg	1.968	66.925	mg/kg	0.00669 %	✓	
14	TPH (C6 to C40) petroleum group TPH				<12.02	mg/kg		<12.02	mg/kg	<0.0012 %		<LOD
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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								
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
20	pH PH				8.54 pH		8.54 pH	8.54 pH			
21	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
22	acenaphthylene 205-917-1 208-96-8				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
23	acenaphthene 201-469-6 83-32-9				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
24	fluorene 201-695-5 86-73-7				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
25	phenanthrene 201-581-5 85-01-8				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
26	anthracene 204-371-1 120-12-7				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
27	fluoranthene 205-912-4 206-44-0				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
28	pyrene 204-927-3 129-00-0				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
29	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
30	chrysene 601-048-00-0 205-923-4 218-01-9				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
31	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
32	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %			<LOD
33	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
34	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
35	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
36	benzo[ghi]perylene 205-883-8 191-24-2				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
37	phenol 604-001-00-2 203-632-7 108-95-2				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
Total:									0.0164 %		

Key

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

Classification of sample: WS-S06A

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

Sample details

Sample name:	LoW Code:	
WS-S06A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties


None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<5	mg/kg	1.197	<5.986	mg/kg	<0.000599 %	<LOD
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5	mg/kg	1.32	6.602	mg/kg	0.00066 %	✓
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %	<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %	✓
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	26.308	mg/kg	0.00263 %	✓
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %	<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24	mg/kg	1.126	27.021	mg/kg	0.0027 %	✓
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	27	mg/kg	1.56	42.115	mg/kg	0.0027 %	✓
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %	<LOD
10	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<1	mg/kg	1.5	<1.5	mg/kg	<0.00015 %	<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.976	50.597	mg/kg	0.00506 %	✓
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %	<LOD
13	zinc { trizinc bis(orthophosphate) }	030-011-00-6	231-944-3	7779-90-0		53	mg/kg	1.968	104.325	mg/kg	0.0104 %	✓
14	TPH (C6 to C40) petroleum group			TPH		113	mg/kg		113	mg/kg	0.0113 %	✓
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
16	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
17	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<LOD
18	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %	<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									
19	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
20	pH				8.3	pH		8.3	pH	8.3 pH		
			PH									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.03	mg/kg		0.03	mg/kg	0.000003 %	✓	
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.0372 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because It is unlikely for the soil soil sample to be flammable at the concentration reported

Hazard Statements hit:

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

Because of determinand:

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

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

- **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

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

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

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

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

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

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

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

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

Reason for additional Hazards Statement(s):

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

- **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database
 Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
 Data source date: 21 Aug 2015
 Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
 Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
 Data source date: 21 Aug 2015
 Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
 Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
 Data source date: 06 Aug 2015
 Hazard Statements: Carc. 2; H351

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
 Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
 Data source date: 23 Jul 2015
 Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

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

arsenic {arsenic trioxide}

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

beryllium {beryllium oxide}

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

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

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

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. Worst case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

zinc {zinc bis(orthophosphate)}

Not enough Chromium VI to form zinc chromate. More reasonable species selected.

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

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

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2023.174.5645.10410 (23 Jun 2023)

HazWasteOnline Database: 2023.174.5645.10410 (23 Jun 2023)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021