

Hampshire Water Transfer and Water Recycling Project

Environmental Statement - Appendix 11.2 Geotechnical and Geo- environmental reports - 3 of 18 documents - Geotechnical and Geo- environmental Interpretative Report for Ground Investigation in Section E (Phase 2 and Phase 3B/3C) Addendum to Summary Report

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1 Introduction and Objectives

1.1 Background and Scheme Overview

Water for Life Hampshire (WfLH) is a programme being undertaken by Southern Water Services Limited (hereafter referred to as 'the Applicant') to address the sustainability objectives of reduced abstractions on Hampshire's two main rivers, the River Test and River Itchen and ensuring a resilient water supply for the Applicant's customers during times of drought. The Hampshire Water Transfer and Water Recycling Project (HWTWRP) (hereafter referred to as the 'Proposed Development') is the Strategic Resource Option project being delivered as part of the WfLH programme (Southern Water, 2024). An overview of the Proposed Development, at the time of this report production, is provided in the Applicant's HWTWRP Technical Document Technology Guide (Southern Water, 2024).

1.2 Terms of Reference

Strategic Solutions Partner (SSP) has been instructed by the Applicant as part of the Proposed Development, to produce a Geotechnical and Geo-environmental Interpretative Report for ground investigations (GI) completed for the construction of the proposed underground pipeline.

The Proposed Development has been divided into 12 Sections by the Applicant these are referred to as Sections A to M (excluding I).

1.3 Ground Investigation Programme

The GI for the Proposed Development is being completed utilising a phased approach as shown in **Table 1.1**. This document reports the findings of the GI works completed during Phase 2 and Phase 3B/3C within Section E only.

Table 1.1: Ground Investigation Programme

GI Phase	Description
Phase 0	This, with Phases 1 and 3A, was completed between July 2022 and October 2023 by SOCOTEC for Clancy (Principal Contractor) and as specified by SSP (AECOM) primarily for the purpose of tunnel and shaft design (Sections B, C, D and M only) and comprised 11 boreholes.
Phase 1	This, with Phases 0 and 3A, was completed between July 2022 and October 2023 by SOCOTEC for Clancy (Principal Contractor) and as specified by SSP (AECOM) primarily for the purpose of tunnel and shaft design (Sections B, C, D, L and M only) and comprised 35 exploratory hole locations.
Phase 2	This is part of a wider phased GI conducted along the route between February 2023 and July 2023 by SOCOTEC for Clancy (Principal Contractor) and as specified by SSP primarily for the purpose of investigating areas for non-pipeline infrastructure, trenchless crossings and potential sources of contamination (PSC).
Phase 3A	This, with Phases 0 and 1, was completed between July 2022 and October 2023 by SOCOTEC for Clancy (Principal Contractor) and as specified by SSP (AECOM) primarily for the purpose of tunnel and shaft design (Sections B, C, D, L and M only) and comprised 14 exploratory hole locations.
Phase 3B/3C	This, with several Phase 2 GI locations was completed between May 2023 and May 2024 by SOCOTEC for Clancy (Principal Contractor) and as specified by SSP primarily for the purpose of investigating areas for non-pipeline infrastructure, trenchless crossings, PSCs and the linear route.

1.4 Section E Ground Investigation Objectives

The Phase 2 and Phase 3B/3C Section E GI investigated the following:

- Non-pipeline infrastructure above ground plant (AGP) site called BPT-E / IPS-E.
- Areas of potential sources of contamination (PSCs) within 50 m of the Draft order Limits (DoL) assessed to have a risk rating of Moderate/Low or higher as identified within HWTWRP Geotechnical and Geo-Environmental Desk Study Version 4 (SSP, 2024).
- Confirm geological conditions along the linear route to comply with Eurocode 7: Part 2 (BSI, 2007).

The Phase 2 and Phase 3B/3C Section E GI comprised the following:

- Three locations (2E3000RC, 2E3001RC and 2E3002RC) associated with the proposed AGP compound BPT-E / IPS-E.
- Twelve locations to prove the geology along the linear route to comply with Eurocode 7: Part 2 comprising 3E3022HP, 3E3028HP, 3E3034HP, 3E3038HP, 3E3103HP, 3E3104HP, 3E3105HP, 3E3107HP, 3E3109HP, 3E3111HP, 3E3113HP and 3E3119HP.
- Eight locations for BRE365 infiltration tests completed (3E7501IT, 3E7502IT, 3E7503IT, 3E7504IT, 3E7505IT, 3E7506IT, 3E7507IT, 3E7508IT) at the site of BPT-E / IPS-E to enable flood level risk assessments by SSP Hydrologists to be undertaken
- Fifteen locations targeting PSCs (3E3019DS, 3E3020DS, 3E3021DS, 3E3023TP, 3E3035DS, 3E3036DS, 3E3100DS, 3E3101TP, 3E3102TP, 3E3106TP, 3E3108TP, 3E3110DS, 3E3112TP, 3E3114DS and 3E3115DS).

Other PSCs identified within a 50 m radius of the Section E DoL were not investigated during Phase 2 and Phase 3B/3C GI. For these areas, it was considered that the potential for the presence of significant contamination is not high as defined in the Methodology for Identification of Ground Investigation (SSP, 2022b). Risk Assessments for these PSCs are presented in the Desk Study (SSP, 2024).

It is expected that the Main Works Contractor will assess PSCs not assessed by the GI and/or where additional information is needed at already investigated exploratory hole locations as part of their construction phase works to understand and comply with contaminated land, health and safety, excavated materials (waste) management and any other relevant guidance.

1.5 Report Format

This report comprises both geotechnical and geo-environmental interpretation of data collated during the GI as outlined below:

Section 1	Introduction and report objectives
Section 2	Description including the location and site description
Section 3	Summary of the GI (SOCOTEC, 2023a) (SOCOTEC, 2024)
Section 4	Ground model
Section 5	GI results, data interpretation and geo-environmental risk assessment, and geo-environmental considerations for the outline proposed works
Section 6	Development of the contamination risk assessment model from the ground investigation
Section 7	Geotechnical testing and assessment including geotechnical summary tables and figures and design parameters
Section 8	Geotechnical considerations including hazard and mitigation table, discussions on ground conditions, foundation design, excavations, groundwater control, flotation, trenchless construction and concrete aggressivity
Section 9	Conclusions
Section 10	Recommendations based on the results of the GI

This report provides a summary of encountered ground conditions, existing GI results, geotechnical and geo-environmental interpretation of analysis undertaken to inform on potential future structures and pipeline design, health and safety of construction and future ground workers (construction) and excavated materials (waste) management.

A land contamination risk assessment for other potential future receptors such as farmers/ farm workers/ members of the public accessing and working within the Proposed Development is outside the scope of this report. Further ground investigation and human health risk assessment may be required to determine the risk to these and any other identified potential future receptors, particularly in regard to appropriate excavated materials management (e.g. proposed reuse of soils).

Assessment of the GI data collected across the other Proposed Development sections is included in separate relevant sectional reports, which are collated in the HWTWRP Geotechnical and Geo-environmental Interpretative Summary Report (Ref.710166-SWS-XX-XX-RP-GE-00100).

2 Section E Description

2.1 Location and Description

The approximate 7.3 km length of Section E will consist of a 1200 mm diameter ductile iron (DI) pipeline in open-cut trenches between 3 – 6 m below ground level (bgl) across predominantly arable fields, illustrated in the **Figures** Section. The pipeline chainage ranges from 3975 m to 11300 m as provided by the Applicant as of 12 March 2024, part of the Summer 2024 Design Consultation Route.

Section E extends from an arable field to the north of a solar farm, approximately 60 m west of Dell Close, progressing westwards then southwest to where BPT-E / IPS-E is located at the highest part of the project at approximately 91 m Ordnance Datum (OD) (National Grid Reference (NGR) 466436E, 106495N). The route changes direction at the top of the field with BPT-E / IPS-E heading north and northwest down gradient beneath New Down Lane, across arable fields west across Widley Walk (lowest point of the Section at approx. 48 m OD at NGR 465905E, 107068N), Mill Lane, Pigeon House Lane, B2177, Crooked Walk Lane, Portchester Lane, and Monument Lane. As the pipeline progresses west, the elevation undulates gently, between approximately 50 m OD to 70 m OD and 50 to 60 m OD, passing under Boarhunt Road towards where Section F begins (NGR 460063E, 107952N).

The AGP compound BPT-E / IPS-E within Section E is located within a flat arable field (approximately 92 m OD) to the northeast of the junction of Portsdown Hill Road and New Down Lane, centred at NGR 466419E, 106493N as shown in the **Figures** section. BPT-E / IPS-E ancillary structures are as follows:

- Pump House;
- A partially below ground Pump Sump Twin Cell;
- HV & LV Switch room;
- Compressor Kiosk;
- 2 No. Surge Vessels;
- 3 No. Air cooler units;
- Fuel Storage;
- Transformers;
- Generator; and
- Access road / fuel delivery bund.

3 Section E Ground investigation

3.1 Rationale for Ground Investigation Locations

Phase 2 focussed on locations of critical infrastructure, trenchless crossings and areas of potential sources of contamination (PSCs) as identified within HWTWRP Geotechnical and Geo-Environmental Desk Study Version 4 (SSP, 2024). Phase 3B/3C investigations were completed to investigate potential sources of contamination, the linear route and for geotechnical testing to be undertaken. Further detail on the rationale for the Phase 2 and Phase 3B/3C GI is presented in **Table 3.1**.

Table 3.1 Rationale for Phase 2 and Phase 3B/3C Locations in Section E

Hole ID	Rationale for GI Location
3E3100DS	To investigate potential contamination from a potential landfill (PSC 499) recorded by a local authority located within the DoL and approximately 180 m north of BPT-E / IPS-E. The exploratory hole is located approximately 35 m southeast of PSC.
2E3000RC	To gain information on ground and groundwater conditions within the BPT-E / IPS-E AGP. To investigate PSCs from potential areas of infilled land within 250 m (PSCs 262, 273, 313, 314, 319, 323, 324, 358, 499) which could impact the BPT-E / IPS-E AGP ¹ .
2E3001RC	
2E3002RC	
3E7501IT to 3E7508IT	At BPT-E / IPS-E to investigate BRE365 infiltration rates for sustainable urban drainage systems (SuDs) for hydrological purposes.
3E3101TP	To investigate potential contamination from Parchow Groundworks (PSC 476) located adjacent to the DoL. The exploratory hole is located approximately 25 m northeast of PSC.
3E3102TP	To investigate potential contamination from a potentially infilled chalk pit (PSC 275), located approximately 15 m west of the DoL. The exploratory hole is located approximately 50 m northeast of PSC.
3E3103HP	To confirm the geology along the linear route.
3E3104HP	
3E3105HP	
3E3106TP	To investigate potential contamination from a potentially infilled chalk pit (PSC 276) located adjacent to the DoL. The exploratory hole is located approximately 5 m southeast of PSC.
3E3107HP	To confirm the geology along the linear route.
3E3109HP	
3E3019DS	To investigate potential contamination from a potentially infilled pond (PSC 280) located approximately 15 m north of the DoL. The exploratory hole is located approximately 18 m southwest of PSC 280.
3E3020DS	To investigate potential contamination from a potentially infilled chalk pit (PSC 264) located approximately 10 m northeast of the DoL (at closest point). The exploratory hole is located approximately 25 m southwest of PSC.
3E3021DS	To investigate potential contamination from a potentially infilled chalk pit (PSC 289) which encroaches onto the DoL. The exploratory hole is located approximately 10 m south of PSC.
3E3022HP	To confirm the geology along the linear route.
3E3023TP	To investigate potential contamination from a potentially infilled chalk pit (PSC 278) located within the DoL and historic kilns (PSC 279 and 282) located within the footprint of the former chalk pit.
3E3108TP	The exploratory holes are located within PSC 278 and 30-50 m northeast (3E3023TP) and northwest (3E3108TP) of PSCs 279, 282.

Hole ID	Rationale for GI Location
3E3100DS	To investigate potential contamination from a potential landfill (PSC 499) recorded by a local authority located within the DoL and approximately 180 m north of BPT-E / IPS-E. The exploratory hole is located approximately 35 m southeast of PSC.
3E3109HP	To confirm the geology along the linear route.
3E3110DS	To investigate potential contamination from a potentially infilled chalk pit (PSC 290) located approximately 25 m north (closest point) of the DoL. The exploratory hole is located approximately 50 m south of PSC.
3E3111HP	To confirm the geology along the linear route.
3E3028HP	
3E3119HP	
3E3112TP	To investigate potential contamination from a potentially infilled chalk pit (PSC 292) located within the DoL. The exploratory hole is located approximately 38 m north of PSC..
3E3113HP	To confirm the geology along the linear route.
3E3114DS	To investigate potential contamination from potentially infilled chalk pit (PSC 268) located within the DoL. The exploratory holes are located within the PSC.
3E3115DS	
3E3034HP	To confirm the geology along the linear route.
3E3035DS	To investigate potential contamination from a potentially infilled chalk pit (PSC 270) which encroaches onto the DoL. The exploratory hole is located approximately 20 m north of the PSC.
3E3036DS	To investigate potential contamination from a potentially infilled chalk pit (PSC 269) located adjacent to the DoL. The exploratory hole is located approximately 10 m south of PSC.
3E3038HP	To confirm the geology along the linear route.

¹ PSCs within a 50 m buffer of the BPT-E / IPS-E AGP (250 m for potentially infilled ground) were identified by the desk study which warranted further investigation (SSP, 2024).

Within Section E, some locations were cancelled due to land access permissions or concrete obstructions; these included 3E3040DS, 3E3116HP, 3E3117HP and 3E3118TP which were locations originally supplied to the GI Contractor to investigate prior to GI commencing.

3.2 Section E Ground Investigation

A GI was carried out for Phase 2 at selected locations at the proposed BPT-E / IPS-E by SOCOTEC between 31st May to 6th July 2023. The GI scope was specified by SSP (SSP, 2022).

A GI was carried out for Phase 3B/3C at selected locations across Section E by SOCOTEC between 29th August 2023 and 29th May 2024. The GI scope was specified by (SSP, 2023b) (SSP, 2023c).

The following GI exploratory holes and non-intrusive surveys were completed:

Phase 2 GI:

- Electromagnetic (EM) survey at the proposed BPT-E / IPS-E site; three boreholes (2E3000RC, 2E3001RC and 2E3002RC) completed by dynamic sampling and rotary coring follow on to depths between 8.30 m and 30.85 m bgl).

Phase 3B/3C GI:

- Nine boreholes (3E3019DS, 3E3020DS, 3E3021DS, 3E3035DS, 3E3036DS, 3E3100DS, 3E3110DS, 3E3114DS and 3E3115DS) completed by dynamic sampling to depths between 1.80 m bgl and 6.45 m bgl.

- Twelve hand excavated trial pits were completed (3E3022HP, 3E3028HP, 3E3034HP, 3E3038HP, 3E3103HP, 3E3104HP, 3E3105HP, 3E3107HP, 3E3109HP, 3E3111HP, 3E3113HP, 3E3119HP) to depths between 0.90 m bgl and 1.20 m bgl.
- Six trial pits completed (3E3023TP, 3E3101TP, 3E3102TP, 3E3106TP, 3E3108TP, 3E3112TP) by machine excavator to depths between 2.60 m bgl and 4.00 m bgl.
- Eight trial pits completed (3E7501IT, 3E7502IT, 3E7503IT, 3E7504IT, 3E7505IT, 3E7506IT, 3E7507IT and 3E7508IT) by machine excavator for infiltration testing to depths between 2.30 m bgl and 2.50 m bgl.
- Resistivity testing at ten locations (3E3028HP, 3E3038HP, 3E3103HP, 3E3104HP, 3E3105HP, 3E3107HP, 3E3109HP, 3E3111HP, 3E3113HP and 3E3119HP).
- Electrical Resistivity Tomography survey across the proposed BPT-E / IPS-E site.

The non-intrusive geophysical surveys investigated the presence of chalk dissolution features using an EM survey to highlight any potential areas across the whole field adjacent to New Down Lane including AGP BPT-E / IPS-E. The EM survey was completed to identify areas of apparent conductivity across the area without ground contact (without electrodes in the ground). Following the results of the EM survey, areas within BPT-E / IPS-E were identified as requiring further investigation utilising electrical resistivity tomography (ERT) methods. This is to confirm the presence and dimensions of potential chalk dissolution features to a greater certainty and to a greater depth, that is not possible with EM surveys. The ERT survey was used to identify areas of the proposed BPT-E / IPS-E site that have low/high resistivity to indicate whether the dissolution feature would be water or air filled (SOCOTEC, 2023b). The results of the EM and ERT surveys may influence where the location of the BPT-E / IPS-E AGP area may be built, which potentially avoid any chalk dissolution features.

The GI also included: in-situ geotechnical tests, volatile headspace testing by a Photoionisation Detector (PID), and geotechnical and geo-environmental soil sampling and testing, and groundwater and gas monitoring.

The details of the GI, tests and laboratory analysis are presented in the SOCOTEC Ground Investigation Final Factual report (SOCOTEC, 2023a). A description of GI locations is shown in **Table 3.2**.

Table 3.2: Description of GI Locations

GI Location	National Grid Reference ¹	Location Description
3E3100DS	466551, 106660	Located within a field east of New Down Lane approximately 180 m (3E3100DS) northeast of Parchow Ground works, north of Portsdown Hill Road (B2177).
2E3000RC	466400, 106502	Located within a field approximately 40 m north of Portsdown Hill Road (B2177) and east of New Down Lane, approximately 1 km north of Portsmouth's Cosham and Drayton neighbourhoods. The immediate surrounding land use is agricultural. Portsdown Hill (public open space) is located immediately south of B2177.
2E3001RC	466432, 106549	
2E3002RC	466444, 106479	
3E7501IT	466419, 106463	Located with a field to the north of Portsdown Hill Road (B2177) and east of New Down Lane to the west of Widley. The surrounding land use is agricultural.
3E7502IT	466456, 106484	
3E7503IT	466459, 106508	
3E7504IT	466435, 106523	
3E7505IT	466448, 106461	
3E7506IT	466393, 106470	

GI Location	National Grid Reference ¹	Location Description
3E7507IT	466393, 106500	Located with a field to the north of Portsdown Hill Road (B2177) and east of New Down Lane to the west of Widley. The surrounding land use is agricultural.
3E7508IT	466405, 106525	
3E3101TP	466403, 106638	Located within a field east of New Down Lane approximately 30 m (3E3101TP) northeast of Parchow Ground works, north of Portsdown Hill Road (B2177).
3E3102TP	466240, 106836	Located within a field west of Widley, north of Cosham and Portsdown Hill Road (B2177). West of New Down Lane.
3E3103HP	466082, 106971	Located within a field between east of Widley Walk and to the west of New Down Lane. North of Cosham and Portsdown Hill Road (B2177).
3E3104HP	465800, 107057	Located within a field west of Widley, north of Cosham and Portsdown Hill Road (B2177).
3E3105HP	465584, 107069	Located within a field east of Mill Lane and to the west of Widley Walk. north of Portsdown Hill Road (B2177).
3E3106TP	465290, 106983	Located within field between west of Mill Lane and east of Pigeon House Lane. North of Portsdown Hill Road (B2177).
3E3107HP	465046, 106975	Located within a field west of Mill Lane and to the north of Wymering. North of Portsdown Hill Road (B2177).
3E3019DS	464700, 107025	Located north of Portsdown Hill Road (B2177) and west of Pigeon House Lane. The immediate surrounding land use is agricultural.
3E3020DS	464357, 107191	Located within a field north of Southwick Road (B2177) and west of Pigeon House Lane. The immediate surrounding land use is agricultural.
3E3021DS	464169, 107241	
3E3022HP	464032, 107254	
3E3023TP	463915, 107257	Located within a field east of Southwick Road (B2177). The immediate surrounding land use is agricultural.
3E3108TP	463830, 107269	Located within a field west of Southwick Road (B2177) and south of Drove Road light industrial area and approximately 500 m north of North Road. The surrounding land use is agricultural.
3E3109HP	463626, 107324	
3E3110DS	463460, 107383	
3E3111HP	463138, 107420	
3E3028HP	462897, 107494	Located within a field south of Southwick Road (B2177) and to the east of Crooked Walk Lane. The surrounding land use is agricultural.
3E3119HP	462706, 107568	Located within a field east of Crooked Walk Lane. The surrounding land use is agricultural.
3E3112TP	462508, 107657	Located within a field west of Crooked Walk Lane and south of Southwick Road (B2177). The surrounding land use is agricultural.
3E3113HP	462262, 107690	
3E3114DS	462050, 107701	Located within a field east of Portchester Lane and approximately 400 m north of Crooked Walk Lane. The surrounding land use is agricultural.
3E3115DS	462005, 107707	
3E3034HP	461782, 107751	Located within a field south of Ham Lane and Southwick Road (B2177), and to the west of Portchester Lane. The surrounding land use is agricultural.
3E3035DS	461558, 107809	
3E3036DS	461363, 107814	
3E3038HP	460853, 107821	Located within a field to the southeast of Boarhunt and west of Monument Lane. The surrounding land use is agricultural.

¹ Provided in the Final Factual GI report (SOCOTEC, 2023a) (SOCOTEC, 2024).

3.3 Exploratory Holes and Monitoring Well Installations

The exploratory hole locations and borehole logs are presented in SOCOTEC’s Ground Investigation Final Factual reports (SOCOTEC, 2023a) (SOCOTEC, 2024). **Table 3.3** provides a summary of the locations and installation response zones. Groundwater and gas monitoring wells were installed in 2E3000RC, 2E3002RC, 3E3019DS, 3E3035DS and 3E3115DS. No data loggers were installed in Section E boreholes. A plan showing the exploratory hole locations is presented in the **Figures** section.

Table 3.3: Summary of Groundwater and Ground Gas Monitoring

BH ID	Response Zones (m bgl)	Groundwater Monitoring Rounds	Gas Monitoring Rounds	Groundwater Samples
2E3000RC	6.0-30.0 (Chalk)	9 No. (13 July 2023 to 5 March 2024)	10 No. (13 July 2023 to 7 May 2024)	None
2E3002RC	10.0-30.5 (Chalk)	9 No. (13 July 2023 to 5 March 2024)	9 No. (10 August 2023 to 6 May 2024)	None
3E3019DS	1.5-4.5 (Chalk)	6 No. (2 May 2024 to 16 July 2024)	6 No. (2 May 2024 to 16 July 2024)	None
3E3035DS	1.0-3.0 (Chalk)	6 No. (1 May 2024 to 16 July 2024)	5 No. (16 May 2024 to 16 July 2024)	None
3E3115DS	1.0-2.5 (Made Ground)	4 No. (1 May 2024 to 16 July 2024)	3 No. (19 June 2024 to 16 July 2024)	None

Response zones depths are taken from the Ground Investigation Reports (SOCOTEC, 2023a) (SOCOTEC, 2024).

3.4 Geo-Environmental Testing

Geo-environmental laboratory testing was scheduled, by SSP, on selected soil samples recovered during the GI works. The testing was carried out by SOCOTEC at their UKAS accredited environmental chemistry laboratory at Bretby, near Burton-on-Trent, in accordance with MCERTS accreditation (where applicable). The scope of testing is listed in **Table B1** and **Table B2 (Appendix B)**.

Results of all 9 No. soil samples scheduled for analysis during Phase 2 GI have been received. All soils encountered in Phase 2 GI were natural, therefore asbestos screening and soil leachate (2:1) testing were not scheduled. Results of 53 out of 55 No. soil samples scheduled for chemical analysis from Phase 3B/3C GI locations have been received. The two missing analyses could not be completed due to insufficient sample material (3E3023TP sample from 4.0 m bgl) and misplaced sample (3E3110DS sample from 2.5 m bgl). It is also noted that the Chain of Custody for GI location 3E3019DS did not get returned to SOCOTEC so there is no soil data at this location. Groundwater testing was not scheduled as all installed exploratory locations (2E3000RC, 2E3002RC, 3E3019DS, 3E3035DS and 3E3115DS) were dry.

3.5 Geotechnical Testing

Geotechnical testing was scheduled by SSP on selected soil samples recovered during the GI works. The testing was carried out by nominated UKAS accredited geotechnical laboratories including: GEOLABS, near Watford, The Testing Lab (TTL) near Doncaster and Derwentside Environmental Testing Services Ltd (DETS) near Durham. Depending on the samples available, the testing comprised a combination of moisture content, Atterberg limits, density (linear), particle size distribution, saturation moisture content (chalk), unconfined compressive strength, point load index testing, unconsolidated undrained triaxial strength, compaction, chalk crushing value, chalk carbonate content, BRE testing, organic matter content and loss on ignition. The tests completed are presented in the SOCOTEC's Ground Investigation Report (SOCOTEC, 2023a) (SOCOTEC, 2024).

4 Ground Model

4.1 Geological Setting

Superficial deposits are absent for the majority of the Section E apart from localised areas of Head Deposits in north to south running linear layers, often infilling minor chalk valleys, extending from upslopes of the Downs down to the margins of Alluvium floodplain. Head Deposits are comprised of poorly sorted stratified deposits, formed by hill wash, and soil creep, comprising variably gravel, sand, silt, clay, locally with lenses of peat and organic material. Mapped extent of Superficial Deposits is summarised in **Table 4.1**.

Table 4.1: Summary of Mapped Superficial Deposits at Ground Level

Chainage	Geology	Typical Description
3975 - 4760	Not present	-
4760 – 4895	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
4895 - 5020	Not present	-
5020 - 5175	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
5175 - 6590	Not present	-
6590 – 6665	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
6665 - 7435	Not present	-
7435 - 7520	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
7520 - 8015	Not present	-
8015 - 8055	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
8055 - 9470	Not present	-
9470 - 9535	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
9535 - 10370	Not present	-
10370 - 10420	Head Deposits	Variable deposits of sandy silty clay, locally gravelly; chalky and flinty in dry valleys
10420 - 11300	Not present	-

The chainages have been provided by the Applicant as of 12 March 2024 as part of the Summer 2024 Design Consultation Route.

Where Superficial deposits are absent, Lambeth Group and White Chalk Subgroup bedrock outcrop. Lambeth Group bedrock consists of the Reading Formation (Undifferentiated), noted in the east of Section E. This generally comprises vertically and laterally variable sequences mainly of over-consolidated clay, often mottled with some silty or sandy clays (total thickness 30 – 35 m).

Mapping shows the majority of site to underlain at ground level by White Chalk Subgroup (Portsdown Chalk Formation). Geological conditions for Section E between Southwick and Portsdown Hill, as well the majority of the arable fields in the Section (lengths vary between 0.4 – 1.3 km), do not indicate the presence of superficial deposits (SSP, 2024). Mapped extent of bedrock is summarised in **Table 4.2**.

London Clay bedrock, which overlies the Lambeth Group, is within close proximity to areas of the pipeline in the east of Section E, and mainly comprises bioturbated or poorly laminated, blue-grey or grey-brown, over-consolidated silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay.

Table 4.2: Summary of Mapped Bedrock at Ground Level

Chainage	Geology	Typical Description
3975 - 4675	White Chalk Subgroup	White chalk with flints
4675 - 5665	Lambeth Group	Mottled clay, locally sandy
5665 - 11300	White Chalk Subgroup	White chalk with flints

The chainages have been provided by the Applicant as of 12 March 2024 as part of the Summer 2024 Design Consultation Route.

Further details can be viewed with the HWTWRP Geotechnical and Geo-Environmental Desk Study Version 4 within **Figures 2.1 and 3.1 Sheets 7 – 10** (SSP, 2024) and factual report produced by SOCOTEC (SOCOTEC, 2023a) (SOCOTEC, 2024).

4.2 Section E Ground Investigation Results

4.2.1 Encountered Ground

A summary of the ground conditions encountered during the GI is provided in **Table 4.1**. Exploratory hole logs are presented in SOCOTEC’s Ground Investigation Report (SOCOTEC, 2023a) (SOCOTEC, 2024) to provide more details. The geology encountered during GI concurs with the desk study.

Table 4.3: Summary of Encountered Ground Conditions for Section E Exploratory Holes

Exploratory Hole ID:	2E3000RC	2E3001RC	2E3002RC	3E3019DS	3E3020DS	3E3021DS	3E3022HP	3E3023TP	3E3028HP	3E3034HP	3E3035DS	3E3036DS	3E3038HP	3E3100DS	3E3101TP	3E3102TP	3E3103HP	3E3104HP	3E3105HP		
Chainage	4260	4310	4250	6390	6770	6965	7100	7220	8295	9470	9700	9900	10425	4010	4400	4680	4910	5225	5440		
Ground Level (m OD)	+91.57	+85.11	+92.01	+68.36	+65.33	+67.40	+64.55	+63.54	+64.76	+52.34	+56.94	+55.99	+51.18	+69.81	+77.81	+68.16	+53.42	+49.89	+49.67		
Stata	Typical Description	Depth (m bgl)																			
Topsoil	Grass over gravelly CLAY, SILT or SAND.	0.00 – 0.20	0.00 – 0.20	0.00 – 0.20	0.00 – 0.35	0.00 – 0.25	0.00 – 0.40	0.00 – 0.55	0.00 – 0.30	0.00 – 0.20-	-	0.00 – 0.40	0.00 – 0.40	0.00 – 0.30	0.00 – 0.40	0.00 – 0.35	0.00 – 0.25	0.00 – 0.35	0.00 – 0.30	0.00 – 0.30	
Made Ground	Soft to firm brown mottled red/grey gravelly CLAY. Gravel is chert and chalk.	-	-	-	-	-	-	-	0.30 – 1.70	-	-	-	-	-	-	-	-	-	-	-	
	Soft to firm greyish brown slightly sandy gravelly silty CLAY with rare, desiccated wood fragments. Gravel of chert and chalk.	-	-	-	-	-	-	-	1.70 – >4.00	-	-	-	-	-	-	-	-	-	-	-	
Head Deposits	Very soft to stiff sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is fine to coarse of flint/chert and chalk.	-	-	-	0.35 – 0.95	-	0.40 – 1.40	0.55 – >0.90	-	-	0.00 – >1.10	-	-	-	-	-	0.25 – 1.60	-	-	-	
	Soft greyish brown gravelly clayey SILT. Gravel is fine to coarse of weak low-density chalk and chert.	-	-	-	-	-	-	-	-	-	-	0.40 – 0.90	-	-	-	-	-	0.35 – 0.60	0.30 – 0.80	0.30 – 0.80	
Lambeth Group	Stiff yellowish mottled red fissured slightly gravelly CLAY. Gravel of flint. (undifferentiated).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60 – >4.00	-	-	-	
	Soft orangish red mottled slightly sandy CLAY.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60 – >1.20	0.80 – >1.20	0.80 – >1.20	
White Chalk Subgroup	Very weak low density, white CHALK recovered as gravelly SILT with local low to high cobble content (Dm)	-	-	-	0.95 – >4.75	-	-	-	-	-	-	-	0.90 – >2.90	0.30 – >1.00	-	-	-	-	-	-	
	White CHALK consisting of sandy silty GRAVEL. Sand is fine to coarse. Gravel is fine to coarse with very weak to weak white chalk (Dc)	-	-	-	-	0.25 – >1.80	1.40 – >3.40	-	-	0.20 – >1.20	-	0.40 – >3.30	-	-	0.40 – >2.36	0.35 – >3.00	-	-	-	-	
	White CHALK recovered as white silty sandy GRAVEL of weak low density white with rare black specks chalk. Very weak to weak, medium to high density, white unstained CHALK with grey rounded nodular flints. CIRIA Grade B2/B3 Chalk	0.20 – 10.60	0.20 – >8.30	0.20 – 1.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Very weak medium density, locally weak high density, white locally slightly yellow stained CHALK with frequent nodular flints. CIRIA Grade B2/B3 Chalk	10.60 – >30.85	-	1.50 – >30.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
End of Hole (m bgl)	30.85	8.30	30.80	4.75	1.80	3.40	0.90	4.00	1.20	1.10	3.30	2.90	1.00	2.36	3.00	4.00	1.20	1.20	1.20		

Exploratory Hole ID:		3E3106TP	3E3107HP	3E3108TP	3E3109HP	3E3110DS	3E3111HP	3E3112TP	3E3113HP	3E3114DS	3E3115DS	3E3119HP	3E7501IT	3E7502IT	3E7503IT	3E7504IT	3E7505IT	3E7506IT	3E7507IT	3E7508IT	
Chainage (m)		5770	6035	7305	7540	7715	8040	8720	8970	9200	9240	8500	4250	4250	4225	4215	4250	4250	4260	4280	
Ground Level (m OD)		+56.96	+66.04	+68.89	+62.40	+65.17	+59.83	+52.46	+56.38	+61.19	+61.56	+58.33	+92.27	+91.45	90.08	+86.32	+91.94	+92.26	+90.21	+86.97	
Stata	Typical Description	Depth (m bgl)																			
Topsoil	Grass over sandy gravelly CLAY, SILT or SAND. Sand is fine to coarse. Gravel is fine to coarse.	0.00 – 0.25	0.00 – 0.60	-	0.00 – 0.35	0.00 – 0.35	0.00 - 0.25	0.00 – 0.35	0.00 – 0.40	0.00 – 0.30	-	0.00 – 0.25	0.00 – 0.30	0.00 – 0.30	0.00 – 0.30	0.00 – 0.30	0.00 – 0.30	0.00 – 0.30	0.00 – 0.30	0.00 – 0.25	
Made Ground	Soft to firm orangish brown mottled red and grey and gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse of chert and chalk.	-	-	-	-	-	-	-	-	-	0.00 – 4.90	-	-	-	-	-	-	-	-	-	
	White sandy silty fine GRAVEL of very weak to weak CHALK.	-	-	-	-	-	-	-	-	-	4.90 – >6.45	-	-	-	-	-	-	-	-	-	
Head Deposits	Very soft to stiff sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is fine to coarse of flint/chert and chalk.	0.25 – 1.00	0.60 – >1.10	-	-	0.35 – 0.80	0.25 - >1.20	-	0.40 – 0.55	-	-	0.25 – >1.10	-	-	-	-	-	-	-	-	
White Chalk Subgroup	Very weak low density, orange-stained white CHALK recovered as slightly gravelly SILT with low to moderate/high cobble content (Dm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CHALK recovered as gravelly silty fine to coarse SAND. Gravel is fine to coarse of flint and very weak white chalk (Dm).	-	-	-	0.35 – >1.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	White CHALK consisting of sandy silty GRAVEL. Sand is fine to coarse. Gravel is fine to coarse with very weak to weak white chalk locally with cobbles/boulders of flint (Dc)	1.00 – >4.00	-	0.30 – >2.60	-	0.80 – 2.00	-	0.25 – >4.00	0.55 – >1.20	0.30 – 2.30	-	0.30 – 0.90	0.30 – 1.20	0.30 – 1.30	0.30 – 0.90	0.30 – 0.80	0.30 – 0.90	0.30 – 0.90	0.30 – 0.90	0.25 – 1.90	
	Very weak to weak low density white mottled yellowish orange CHALK. Discontinuities 0 -10° and 70 - 80° closely spaced, undulating, smooth to rough with silt infilling. Possible CIRIA Grade C3	-	-	-	-	-	-	-	-	-	-	-	0.90 – >2.50	1.20 – >2.50	1.30 - >2.30	0.90 – >2.40	0.80 – >2.50	0.90 – >2.50	0.90 – >2.50	-	
	Moderately weak high density white CHALK. Discontinuities: 75 - 80° close to medium spacing tight infilled with sand. Frequent coarse gravel and cobble sized flint with white cortex. Possible CIRIA Grade A2.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90 – >2.40
	CHALK recovered as white soft to firm gravelly sandy SILT. Sand is fine to coarse. Gravel is very weak white chalk (unable to determine CIRIA grade)**	-	-	-	-	2.00 – >3.90	-	-	-	-	2.30 – >3.45	-	-	-	-	-	-	-	-	-	-
End of Hole (m bgl)		4.00	1.10	2.60	1.20	3.90	1.20	4.00	1.20	3.45	6.45	1.10	2.50	2.50	2.30	2.40	2.50	2.50	2.50	2.40	

**Where CIRIA grade unable to be determined is shown on the borehole logs, it is likely that the chalk described is attributed to CIRIA Grade Dm/Dc

4.2.2 Groundwater Levels

Groundwater monitoring took place in selected boreholes specified by SSP. Monitoring was carried out by SOCOTEC during and after the main fieldwork period. **Table 4.4** summarises the groundwater strikes, and groundwater spot monitoring data collected at monitoring well locations.

Table 4.4: Summary of Groundwater Strikes and Spot Monitoring Records

Exploratory Hole	Response zone (m bgl)	Strike During Drilling – Depth and Elevation	Stratum Within Which Strike Was Recorded	Spot Monitoring – Depth and Elevation	Data Logger – Minimum/Maximum Depth
2E3000RC	6.0 – 30.0 (Chalk)	Not encountered	N/A	28.7 m bgl 62.87 m OD	Not Installed
2E3002RC	10.0 – 30.5 (Chalk)	Not encountered	N/A	29.83 m bgl 62.18 m OD	Not Installed
3E3019DS	1.0 – 4.5 (Chalk)	Not encountered	N/A	4.41 m bgl 63.95 m OD	Not Installed
3E3035DS	1.0 – 3.0 (Chalk)	Not encountered	N/A	2.36 m bgl 54.58 m OD	Not Installed
3E3115DS	1.0 – 2.5 (Made Ground)	Not encountered	N/A	Dry: 55.11 m OD	Not Installed

4.2.3 Visual and/or Olfactory Contamination

Table 4.5 shows that olfactory evidence of contamination was recorded at two Phase 3B/3C GI exploratory locations. There was no visual and/or olfactory evidence of contamination recorded on the exploratory hole logs from Phase 2 GI.

Table 4.5: Visual and/or Olfactory Contamination noted during Phase 2 and Phase 3B/3C GI

BH ID	Location	Depth (m bgl) and stratum	Visual Contamination	Olfactory Contamination
3E3023TP	Within a potentially infilled chalk pit (PSC 278)	0.7-1.0 Made Ground	None recorded	Slight hydrocarbon odour
3E3115DS	Within a potentially infilled chalk pit (PSC 268)	3.5-3.8 Made Ground	None recorded	Slight organic odour

The log for exploratory location 3E3115DS also notes, according to information provided by a local resident, the 1967 area was once excavated out approximately 4.9 m (16 ft) bgl and layered with straw and hot coal to put cattle infected with foot and mouth disease (SOCOTEC, 2024).

4.2.4 Electromagnetic (EM) Survey Results

The EM conductivity results for the survey are presented in drawings L3097-23/01-02 within the EM and ERT Factual Report on Geophysical Survey Report No. L3097-23 (SOCOTEC, 2023b).

The SOCOTEC report states:

“The vertical dipole on page L3097-23/01 showed a uniform trend of conductivity throughout the whole area within the upper 6 m depth of surveyed ground including BPT-E / IPS-E with relatively high conductive materials present in the east of BPT-E / IPS-E, though not significant compared to that expected in the presence of dissolution features. Horizontal dipole results representing the upper 3 m depth of surveyed ground confirmed the uniform trend of conductivity across the whole area identified with the vertical dipole orientation. A region

measuring approximately 12 m x 47 m of relatively high conductivity than the background was present in the southern sector of the survey area (SOCOTEC, 2023b)."

4.2.5 Electric Resistivity Tomography (ERT) Survey Results

The ERT models are presented in drawings L3097-23/03-10 characterised by resistivity values ranging from 49.8 Ωm . to 398.8 Ωm . (SOCOTEC, 2023b).

The SOCOTEC report states:

"There is a general trend of relatively higher resistivity within the upper 5-10 m of the subsurface, with ranges of ~100 – 403.9 Ωm . Beneath this, a relative decrease in apparent resistivity occurs, with values ranging from ~49.8 - 100 Ωm .

All ERT survey lines are broadly divided into two layers, with a layer boundary at 70 m OD. Within ERT lines 7 and 8 there are two anomalous low resistivity areas, one of which is at ~ 35 m along the profile and the other at ~70 m. The north to south oriented ERT lines also have an anomalous low resistivity feature at the south of the survey line. This anomaly shows an uplift and is present in ERT lines 10 to 14. This anomaly is consistent in size, shape and location with the high conductivity anomaly found in the horizontal dipole EM data. Electromagnetic conductivity and resistivity have an inversely proportional relationship and therefore a high conductivity anomaly with exhibit itself in the ERT data as a low resistivity anomaly (SOCOTEC, 2023b)."

5 Generic Quantitative Risk Assessment (GQRA)

This report section assesses the soil concentrations collected at the selected Phase 2 GI locations within the BPT-E / IPS-E AGP and Phase 3B/3C GI locations along Section E.

In accordance with the 'Land Contamination Risk Management' (LCRM) guidance (Environment Agency, 2023), the results of the geo-environmental laboratory testing undertaken on the samples of soil recovered during the 2023 and 2024 SOCOTEC GIs have been compared to current published generic assessment criteria (GAC) to identify potential hazards to the plausible receptors.

The 9 No. soil samples from Phase 2 GI locations included 3 No. samples of topsoil and 6 No. of natural ground (Chalk). The 53 No. soil samples from Phase 3B/3C GI locations included 19 No. samples of topsoil, 5 No. of Made Ground and 29 No. of natural ground (Head Deposits, Chalk and Lambeth Group).

5.1 Soil Chemical Results

5.1.1 Assessment of Potential Risk to Human Health Receptors

There are no recorded exceedances of the human health GAC (commercial land use). Details of the GAC used for screening are provided in **Appendix G**.

5.1.2 Notable Soil Contaminant Concentrations

GAC are not available for all determinands analysed. **Table 5.1** shows that there were concentrations which appear to be elevated compared to other chemical results recorded during the GI.

All soils encountered during Phase 2 GI were natural therefore an asbestos screen was not scheduled. 27 No. soil samples retrieved from Phase 3B/3C GI were screened for asbestos; asbestos was not detected.

Table 5.1: Notable Soil Concentrations

BH ID	Location	Depth (m bgl) and stratum	Determinand	Concentration (mg/kg)	Notes
3E3102TP	c.50 m east of PSC 275 (Pit – Chalk)	0.1 Topsoil	TPH (>C ₁₀ to C ₄₀)	329	Value approx. 10 times greater than in other topsoil samples. Rare charcoal fragments recorded on trial pit log.

In-situ PID testing results show volatile organic compounds (VOC) levels generally below the instrument detection limit of 0.1 ppm. The maximum recorded concentration was 7.0 ppm in the chalk sample taken at 1.0 m bgl from 3E3101TP (SOCOTEC, 2023a) (SOCOTEC, 2024).

5.1.3 Soil Sample Deviations

Soil sample deviations were recorded for samples and analytes stated as **Appendix C**. This was due to the result not wholly meeting the QMS requirements and acceptable (holding) time between the sampling date and laboratory analysis being exceeded¹.

¹ Holding times are derived based on 'stability'; the ability of a property to remain unchanged, within a stated uncertainty, under given storage conditions and a specific timeframe. If a reported result is within the holding time it is known that the degree of change (if it occurs) is not statistically meaningful. If the sample result is reported as 'deviating' the degree of change is unknown and, therefore, may have affected the result. The result must, therefore, be treated as potentially indicative.

5.2 Soil Leachate and Groundwater Results

5.2.1 Comparison of Soil Leachate Results Against GAC

16 No. of the 17 No. soil leachate (2:1 ratio) analyses requested have been reported to date (including one sample not scheduled by SSP). One sample was misplaced therefore no results are available. Concentrations were compared to the Drinking Water Inspectorate Drinking Water Standards guidance (2021) or the Water Supply (Water Quality) Regulations (1989) for petroleum hydrocarbons. A summary of soil leachate results is presented in **Table 5.2**. Details on the selection of water GAC protective of human health are provided in **Appendix G**.

Table 5.2: Soil Leachate Sample Exceedances of Drinking Water Standards Guidance and Withdrawn Water Supply (Water Quality) Regulations 1989

BH ID	Depth (m bgl)	Ground Conditions	Determinand	Concentration (µg/l)	Generic Assessment Criteria (µg/l)
3E3020DS	0.1	Topsoil	Nitrate as NO ₃	84,500	50,000
			TPH (C ₈ to C ₄₀) aliphatic	10	10*
			TPH (C ₈ to C ₄₀) aromatic	10	10*
	1.5	Chalk	TPH (C ₈ to C ₄₀) aliphatic	20	10*
			TPH (C ₈ to C ₄₀) aromatic	10	10*
3E3021DS	0.1	Topsoil	TPH (C ₈ to C ₄₀) aromatic	10	10*
	1.0	Head Deposits	TPH (C ₂₁ to C ₃₅) aromatic	40	10*
			TPH (C ₈ to C ₄₀) aliphatic	10	10*
			TPH (C ₈ to C ₄₀) aromatic	60	10*
3E3023TP	1.0	Made Ground	TPH (C ₈ to C ₄₀) aromatic	50	10*
	4.0	Made Ground	Ammonium (NH ₄)	15,843	500
			Nitrate (NO ₃)	51,700	50,000
			Nitrite (NO ₂)	2,740	500
Sulphate (SO ₄)	278,000	250,000			
3E3036DS	0.5	Head Deposits	TPH (C ₈ to C ₄₀) aromatic	10	10*
3E3106TP	0.5	Head Deposits	TPH (C ₈ to C ₄₀) aromatic	10	10*
	1.2	Chalk	TPH (C ₈ to C ₄₀) aliphatic	10	10*
3E3110DS	0.5	Head Deposits	TPH (C ₈ to C ₄₀) aliphatic	10	10*
			TPH (C ₈ to C ₄₀) aromatic	10	10*
3E3112TP	1.0	Chalk	TPH (C ₈ to C ₄₀) aromatic	20	10*
3E3114DS	0.5	Chalk	Total GRO (C ₅ to C ₁₀)	152	10*
			TPH (C ₈ to C ₁₀) aliphatic	127	10*
			TPH (C ₂₁ to C ₃₅) aliphatic	20	10*
			TPH (C ₂₁ to C ₃₅) aromatic	40	10*
			TPH (C ₈ to C ₄₀) aliphatic	30	10*
			TPH (C ₈ to C ₄₀) aromatic	60	10*

BH ID	Depth (m bgl)	Ground Conditions	Determinand	Concentration (µg/l)	Generic Assessment Criteria (µg/l)
	2.5	Chalk	TPH (C ₂₁ to C ₃₅) aliphatic	10	10*
			TPH (C ₂₁ to C ₃₅) aromatic	20	10
			TPH (C ₈ to C ₄₀) aliphatic	30	10*
			TPH (C ₈ to C ₄₀) aromatic	30	10*
3E3115DS	1.0	Made Ground	TPH (C ₂₁ to C ₃₅) aromatic	20	10*
			TPH (C ₈ to C ₄₀) aromatic	20	10*
	3.7	Made Ground	Iron	210	200
			Manganese	220	50

* Withdrawn Water Supply (Water Quality) Regulations 1989 GAC

Soil leachate sample deviations occurred due to a non-standard volume or mass being used for the test and acceptable (holding) time between the sampling date and laboratory analysis being exceeded. The deviations and potential contaminants for which the laboratory Method Detection Limit (MDL) exceeded the corresponding GAC are presented in **Appendix C**.

5.2.2 Comparison of Groundwater Results Against GAC

There are no groundwater data in Section E as the installed boreholes 2E3000RC, 2E3002RC, 3E3019DS, 3E3035DS and 3E3115DS were dry during drilling and follow-up monitoring.

5.3 Excavated Materials (Waste) Management

5.3.1 Hazardous Properties

Soil analytical results for the 9 No. soil samples from Phase 2 GI locations and 53 No. samples from Phase 3B/3C GI locations have been screened for hazardous properties, as identified in Technical Guidance WM3 - Waste Classification - Guidance on the Classification and Assessment of Waste First Edition Version 1.2 (Environment Agency, 2021). This screen was carried out using HazWasteOnline™ (HazWasteOnline, 2024a) (HazWasteOnline, 2024b). The results are provided in **Appendix E**.

None of the soil samples analysed were identified to possess hazardous properties, and therefore, are classified as non-hazardous for waste disposal purposes.

5.3.2 Waste Acceptance Criteria (WAC)

WAC testing was completed in accordance with BSEN 12457/2 on 5 No. soil samples (2 No. of topsoil and 3 No. of chalk) from Phase 2 GI locations and on 27 No. samples (10 No. of topsoil, 5 No. of Made Ground and 12 No. of natural soils) from Phase 3B/3C GI locations. Results were screened against landfill WAC limit values for an inert landfill.

All samples met the criteria for disposal to inert landfill, except for one sample from 2E3000RC taken at 0.15 m bgl (topsoil). A marginal exceedance in Total Organic Carbon (TOC) concentration was detected in this sample (3.06% vs limit of 3.00%). Given the Dissolved Organic Carbon (DOC) of this sample is <500 mg/kg at its own pH, it may be possible for this material to be disposed as inert waste, however, this should be agreed with the landfill operator in advance.

It is important to note that specific inert landfills may have stricter and/or additional limits imposed for waste soil disposal, therefore the above assessment should be treated as indicative only. Suitability of material for

disposal must be discussed with the landfill operator in advance. It is likely that additional soil sampling with chemical and WAC testing will be required beyond this preliminary ground investigation to inform on suitable disposal routes. Topsoil is not normally accepted at inert landfill due to its high organic content.

5.4 Ground Gas Monitoring

Ground gas monitoring results are tabulated in SOCOTEC's Ground Investigation Reports for Phase 2 GI (SOCOTEC, 2023a) and Phase 3B/3C GI (SOCOTEC, 2024). Ten gas monitoring rounds were completed at Phase 2 GI locations between 13th July 2023 and 7th May 2024, with results subsequently submitted to SSP during monthly AGS data submissions. The November 2023 monitoring event was completed during falling atmospheric pressure. Six gas monitoring rounds were completed at Phase 3B/3C GI locations between 2nd May 2024 and 16th July 2024. Peak concentrations (minimum for oxygen) recorded during each monitoring round are presented in the summary tables in **Appendix F**.

It is noted that gas monitoring could not be performed on one occasion (13th July 2023) in 2E3002RC due to the gas bung being blocked / damaged.

Peak concentrations (minimum for oxygen) are presented in the summary **Table 5.3**.

5.4.1 Gas Thresholds

Peak gas concentrations (minimum for oxygen) recorded in monitoring wells have been compared to the following gas threshold concentrations:

- BSI (The British Standards Institution) Health and Safety in tunnelling in the construction industry - Code of Practice [BS 6164:2019] (BSI, 2019).
- EH40/2005 (fourth edition 2020) Workplace Exposure Limits (HSE, 2020).

Exceedances of these thresholds are shown in **Table 5.4**.

5.4.2 Ground Gas Risk Assessment

Given that the BPT-E / IPS-E location is expected to contain building structures, a ground gas risk assessment is required to determine the risks to new buildings. A Gas Screening Value (GSV) has been calculated according to BS8485:2015+A1:2019 (BSI, 2015a):

$$GSV \text{ (litres of gas / hour)} = \text{max borehole flow rate (l/h)} \times \text{max gas concentration of CH}_4 \text{ or CO}_2 \text{ (\%)}$$

Using the recorded peak CO₂ concentration of 2.7% vol at 2E3002RC exploratory location and worst-case flow rate of 0.2 l/h at 2E3000RC exploratory location (both within the proposed BPT-E / IPS-E area), the GSV comes equal to 0.0054 l/h, which is characterised as Characteristic Situation (CS) 1. No gas protective measures are required for CS1 sites. The guidance (BSI, 2015a) also notes that for CS1 typically methane should be <1% and/or carbon dioxide <5%, otherwise consideration should be made to increase classification to CS2. Current data show all recorded gas concentrations below these thresholds, hence CS1 classification is considered suitable.

Table 5.3: Ground Gas Monitoring Results Summary

Peak Gas Concentrations (minimum for Oxygen)								
Borehole	Response Zone and Stratum	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	Max Gas Flow Rate (pk) l/hr
2E3000RC Open field (arable) Within BPT-E / IPS-E	6.0-30.0 (Chalk)	0.2 (Chalk)	2.0	18.1	2.0	1.0	1.1	0.2
2E3002RC Open field (arable) Within BPT-E / IPS-E	10.0-30.5 (Chalk)	0.2 (Chalk)	2.7	16.7	1.0	1.0	0.3	0.1
3E3019DS Open field (arable) c.18 m southwest of PSC 280	1.5-4.5 (Chalk)	<0.1 (Chalk)	6.2	12.8	0	<10	1.1	9.0
3E3035DS Open field (arable) c.20 m north of PSC 270	1.0-3.0 (Chalk)	<0.1 (Chalk)	0.9	20.0	0	<10	<0.1	<0.1
3E3115DS Open field (arable) Within PSC 268	1.0-2.5 (Made Ground)	<0.1 (Made Ground)	0.6	20.3	0	<10	<0.1	<0.1

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.

ppmv - Part per Million Volume

Table 5.4: Exceedances of Gas Thresholds

Area	BH ID	CH ₄	CO ₂	O ₂	CO	H ₂ S	VOC
Location / Substance (threshold)		4.4% (LEL) to 17% (UEL)	0.5% (LTL) 1.5% (STL)	<19% by volume	20 ppm (LTL) 100 ppm (STL)	5 ppm (LTL) 10 ppm (STL)	Approx. 10000 ppmv (LEL)¹
Open field (arable) Within BPT-E / IPS-E	2E3000RC ²	N/A	Yes	Yes	N/A	N/A	N/A
	2E3002RC ²	N/A	Yes	Yes	N/A	N/A	N/A
Open field (arable) c.10 m south of PSC 280	3E3019DS ²	N/A	Yes	Yes	N/A	N/A	N/A
Open field (arable) c.20 m north of PSC 270	3E3035DS ²	N/A	Yes, LTL only	N/A	N/A	N/A	N/A
Open field (arable) Within PSC 268	3E3115DS	N/A	Yes, LTL only	N/A	N/A	N/A	N/A

LEL – Lower explosive limit, UEL – Upper explosive limit, STL – Short Term Limit (15-minute reference period) , LTL – Long Term Limit (8-hour reference period)

¹ – dependant on constituents, ² – response zone in the chalk aquifer

N/A – not applicable

6 Land Contamination Risk Assessment Model

6.1 Approach and Revised Conceptual Site Model

The land contamination risk assessment presented in this section is a revised risk assessment and has been undertaken in accordance with the procedure outlined in LCRM (Environment Agency, 2023). This revised risk assessment uses information collated as part of the Phase 2 and Phase 3B/3C GI and builds on the existing preliminary risk assessment completed as part of the desk study. The revised risk assessment will allow for recommendations to be made based on the identification and assessment of potential contaminant linkages. A summary of the guidance for the assessment of land contamination and the approach developed and adopted by SSP is presented in the Summary Report HWTWRP Geotechnical and Geo-environmental Interpretative Summary Report (Ref. 710166-SWS-XX-XX-RP-GE-00100).

6.2 Potential Sources of Contamination

The exploratory hole locations, discussed herein, were drilled primarily to investigate the moderate / low and higher potential risks to the Proposed Development, including the BPT-E / IPS-E above ground plant (AGP), from PSCs within and outside of the DoL. The PSCs and GI data are discussed below.

Pit – Unspecified (PSCs 262 and 314), Water Works – Reservoir (PSC 319), Water Works (PSC 358), Pit – Chalk (PSCs 313, 323 and 324) – outside DoL. Potential for Made Ground/infill of unknown material and ground gas generation.

The exploratory holes 2E3000RC and 2E3002RC were completed approximately 80 m to 270 m north, northwest, west, south or southwest of these PSCs to a maximum depth of 30.85 m bgl.

- Neither Made Ground or superficial deposits were encountered; both locations were underlain by the Portsdown Chalk Formation followed by the Culver Chalk Formation.
- No visual or olfactory evidence of contamination was reported on the borehole logs.
- Groundwater was encountered on one occasion during follow-up monitoring in 2E3000RC and 2E3002RC; however, the quantity of water available within the instruments was insufficient to collect any samples.
- Soil chemical analysis shows no exceedances of the commercial land use GAC. Soil leachate (2:1) analysis was not undertaken. The in-situ PID testing recorded a peak volatile organic compound (VOC) concentration of 0.2 ppm in 2E3000RC chalk deposits and a peak of 0.1 ppm in 2E3002RC topsoil and chalk deposits.
- Ground gas monitoring data obtained over an eleven-month period from 2E3000RC and 2E3002RC show that all methane concentrations were below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs. The GSV for BPT-E / IPS-E location indicates CS1. Given the boreholes are drilled into chalk, there is potential that the small volumes of carbon dioxide may be generated naturally but unlikely to constitute a credible source.

Pit – Chalk (PSCs 264, 269, 275, 276, 289 and 290) – outside DoL. Potential for Made Ground/infill of unknown material and ground gas generation.

Exploratory hole locations 3E3020DS, 3E3021DS, 3E3036DS, 3E3102TP, 3E3106TP and 3E3110DS were completed within 50 m of potentially infilled pits (PSCs 264, 289, 269, 275, 276 and 290 respectively) to a maximum depth of 4.0 m bgl.

- Topsoil was encountered at all locations from ground level to 0.25-0.4 m bgl. Topsoil in 3E3021DS, 3E3102TP, 3E3106TP and 3E3110DS was underlain by Head Deposits to 0.8-1.6 m bgl; superficial deposits were not encountered in other locations. The White Chalk Subgroup was encountered in 3E3020DS, 3E3021DS, 3E3036DS, 3E3106TP, 3E3110DS and Lambeth Group was encountered in 3E3102TP to the base of excavations. Made Ground was not encountered at any of the locations.

- Soil chemical analysis shows no exceedances of the commercial land use GAC.
- Asbestos screening was undertaken on 4 No. samples of topsoil and 8 No. of natural ground; asbestos was not detected.
- 9 No. soil leachate (2:1) sample results showed exceedances above the GAC protective of human health for nitrate (NO₃) in a topsoil sample and petroleum hydrocarbons in a chalk sample from 3E3020DS (PSC 264), and petroleum hydrocarbons in sample of Head Deposits from 3E3021DS (PSC 289). TPH (C₈ to C₄₀) were also detected at the adopted GAC level of 10 µg/l in topsoil from 3E3021DS, Head Deposits from 3E3036DS (PSC 269), 3E3106TP (PSC 276), 3E3110DS (PSC 290), and chalk from 3E3106TP (PSC 276).
- The in-situ PID testing recorded a peak VOC concentration of 2.7 ppm in 3E3110DS Head Deposits at 0.5 m bgl. Follow-up ground gas monitoring was not undertaken.

Pit – Chalk (PSC 268) – within DoL. Potential for Made Ground/infill of unknown material and ground gas generation.

Exploratory hole locations 3E3114DS and 3E3115DS were completed within the boundary of a former chalk pit (PSC 268) to a maximum depth of 6.45 m bgl.

- Topsoil was encountered in 3E3114DS from ground level to 0.3 m bgl, underlain by the White Chalk Subgroup bedrock to the base of excavation; superficial deposits were not encountered. Made Ground was encountered at 3E3115DS from ground level to the base of excavation. Groundwater was not encountered at these GI locations during the GI or subsequent monitoring visits.
- A slight organic odour was noted within Made Ground at 3.5-3.8 m bgl in 3E3115DS borehole log.
- Pathogens may be present within Made Ground due to use of the chalk pit to bury cattle infected with the foot & mouth disease in the late 1960s.
- Soil chemical analysis was undertaken on 4 No. samples of Made Ground from 3E3115DS and shows no exceedances of the commercial land use GAC.
- Asbestos screening was undertaken; no asbestos was detected.
- The in-situ PID testing was not undertaken.
- Results of the soil leachate (2:1) samples showed exceedances above the GAC protective of human health for TPH in both chalk samples from 3E3114DS (dominated by gasoline range organics at 0.5 m bgl and C₂₁ to C₃₅ fraction at 2.5 m bgl) and one Made Ground sample taken at 1.0 m bgl from 3E3115DS (only aromatic C₂₁ to C₃₅ fraction); and for iron and manganese in Made Ground sample taken at 3.7 m bgl from 3E3115DS.
- Ground gas monitoring data from Made Ground within 3E3115DS recorded methane concentrations below the LEL, whereas carbon dioxide levels exceeded the long-term WEL.

Pit – Chalk (PSC 270) – within DoL. Potential for Made Ground/infill of unknown material and ground gas generation.

Exploratory hole location 3E3035DS was completed within the DoL, approximately 20 m north of PSC 270, to a depth of 3.3 m bgl.

- Topsoil was encountered from ground level to 0.4 m bgl, underlain by the White Chalk Subgroup bedrock to the base of excavation; superficial deposits were not encountered.
- Groundwater was encountered on one occasion during follow-up monitoring; however, the quantity of water available within the instruments was insufficient to collect any samples.
- Soil chemical analysis was undertaken on 2 No. samples (topsoil and chalk) and showed no exceedances of the commercial land use GAC.
- Soil leachate (2:1) analysis was not requested.
- Asbestos screening was undertaken; no asbestos was detected.
- In-situ PID testing did not record any VOCs above the instrument's detection limit.
- Ground gas monitoring data from chalk deposits recorded methane concentrations below the LEL, whereas carbon dioxide levels exceeded the long-term WEL.

Pit – Chalk (PSC 278), Works – Kilns (PSCs 279 and 282) – within DoL. Potential for Made Ground/infill of unknown material and ground gas generation.

Exploratory hole locations 3E3023TP and 3E3108TP were completed within the boundary of a potentially infilled chalk pit (PSC 278) and approximately 30 to 50 m northwest/northeast of former kilns (PSCs 279 and 282) to a maximum depth of 4.0 m bgl.

- Topsoil was encountered from ground level to 0.3 m bgl at both GI locations. It was underlain by Made Ground in 3E3023TP to 4.0 m bgl and by the White Chalk Subgroup bedrock in 3E3108TP to 2.6 m bgl; superficial deposits were not encountered.
- Groundwater was not encountered during GI and no subsequent monitoring was performed at these GI locations.
- A slight hydrocarbon odour was noted within Made Ground at 0.7-1.0 m bgl in 3E3023TP borehole log.
- Soil chemical analysis shows no exceedances of the commercial land use GAC. The in-situ PID testing did not record any VOCs above the instrument's detection limit.
- Soil leachate (2:1) analysis was undertaken on 2 No. samples of Made Ground from 3E3023TP. The sample from 1.0 m bgl showed an exceedance above the GAC protective of human health for aromatic petroleum hydrocarbons (C8 to C40 band), whereas the sample from 4.0 m bgl showed exceedances for ammonium (NH₄), nitrate (NO₃), nitrite (NO₂) and sulphate (SO₄).

Infilled Land – Pond (PSC 280) – outside DoL. Potential for Made Ground/infill of unknown material and ground gas generation.

Exploratory hole location 3E3019DS was completed approximately 18 m southwest of a potentially infilled pond (PSC 280) to a maximum depth of 4.75 m bgl.

- Topsoil was encountered from ground level to 0.35 m bgl, underlain by Head Deposits to 0.95 m bgl and the White Chalk Subgroup bedrock to the base of excavation.
- Groundwater was encountered on one occasion at 4.41 m bgl.
- Soil and soil leachate (2:1) chemical analyses have not been requested, therefore it is not possible to directly assess potential risks arising from soils and contaminant transfer between soils and groundwater.
- The in-situ PID testing did not record any VOCs above the instrument's detection limit.
- Ground gas monitoring data from chalk deposits within 3E3019DS recorded methane concentrations below the LEL, whereas carbon dioxide levels exceeded both short- and long-term WELs. Oxygen levels as low as 12.8 % were also detected.

Pit – Chalk (PSC 292) – within DoL. Potential for Made Ground/infill of unknown material and ground gas generation.

Exploratory hole location 3E3112TP was completed within the DoL, approximately 38 m north of PSC 292. The trial pit was excavated to a depth of 4.0 m bgl.

- Topsoil was encountered from ground level to 0.25 m bgl, underlain by the White Chalk Subgroup bedrock to the base of excavation; superficial deposits were not encountered.
- The trial pit was dry during excavation and no subsequent monitoring was performed at this location.
- Soil chemical analysis shows no exceedances of the commercial land use GAC.
- Asbestos screening was undertaken; no asbestos was detected. The in-situ PID testing did not record any VOCs above the instrument's detection limit.
- Results of the soil leachate (2:1) sample showed one exceedance above the GAC protective of human health for aromatic petroleum hydrocarbons (C8 to C40 band) at 1.0 m bgl.

Works – Parchow Groundworks (PSC 476) – outside DoL. Potential for petroleum hydrocarbons, VOCs, metals, PAHs and asbestos.

Exploratory hole location 2E3001RC was completed within the DoL immediately north of the footprint of the proposed BPT-E / IPS-E AGP, approximately 60 m southeast of this PSC. The borehole was drilled to a depth of 8.3 m bgl.

- Neither Made Ground or superficial deposits were encountered at this location, which was underlain by the Portsdown Chalk Formation.
- No visual or olfactory evidence of contamination is reported on the borehole log.
- Groundwater was not encountered during the GI and no subsequent monitoring was performed at this location.

Exploratory hole location 3E3101TP was completed within the DoL, approximately 25 m northeast of this PSC. The trial pit was excavated to a depth of 3 m bgl.

- Topsoil was encountered to 0.35 m bgl, underlain by White Chalk Subgroup bedrock to the base of excavation.
- Groundwater was not encountered during the GI and no subsequent monitoring was performed at this location.
- Soil chemical analysis from these two GI locations shows no exceedances of the commercial land use GAC.
- Soil leachate (2:1) analysis was not undertaken.
- The in-situ PID testing recorded a peak VOC concentration of 7 ppm in 3E3101TP chalk deposits at 1 m bgl.

Landfill (PSC 499) – within DoL. Potential for Made Ground/infill of unknown material and ground gas generation.

Exploratory hole location 3E3100DS was completed within the DoL, approximately 35 m southeast of PSC 499. The borehole was drilled to a depth of 2.45 m bgl.

- Topsoil was encountered to 0.4 m bgl, underlain by White Chalk Subgroup bedrock to the base of excavation.
- Groundwater was not encountered during the GI and no subsequent monitoring was performed at this location.
- Soil chemical analysis shows no exceedances of the commercial land use GAC.
- The in-situ PID testing did not record VOCs above the instrument's detection limit.
- Soil leachate (2:1) analysis was not undertaken.

6.3 Identification of Potential Pathways

During and post construction of the new pipeline Section E and BPT-E / IPS-E, the following potential pathways are considered:

- Dermal contact, ingestion and inhalation of dusts, fibres, gases and vapours.
- Gas and vapour migration and accumulation in future buildings and buried services (BPT-E / IPS-E), voids and below ground chambers / receptor pits (pipeline).
- Surface water runoff from stockpiles to surface watercourses and migration through groundwater.
- Leaching through unsaturated soil to underlying groundwater.
- Pathway for migration of contamination through proposed pipe bedding

6.4 Identification of Potential Receptors

Based on the proposed construction works, end use and surrounding land uses, the following potential receptors previously identified in the preliminary risk assessment have been further assessed following Phase 2 and Phase 3B/3C GI data:

- Construction workers.
- Future site users (workers and maintenance workers).
- Adjacent land users (applicable to PSCs within DoL only)
- On Site existing and future property (buildings and buried services within BPT-E / IPS-E).
- Groundwater (superficial Head Deposits are a Secondary Undifferentiated Aquifer, White Chalk Subgroup bedrock is a Principal Aquifer).
- Surface water (land drains) (applicable to PSCs within DoL only).
- Ecological receptors (Stroud Coppice Ancient Woodland) (applicable to PSCs within DoL only).

Risks to off-Site receptors such as adjacent land users, surface water bodies and ecological receptors (i.e., Portsdown Site of Special Scientific Interest (SSSI) approximately 160 m south of BPT-E / IPS-E) from PSCs outside the AGP site have been dismissed due to the lack of a direct pathway.

The proposed pipeline has not been included as a potential receptor to contaminants that could be present in soils or groundwaters because the pipe material selection, which will be made during design, will prevent impact from existing PSCs.

6.5 Risk Assessment

The above CSM has been used to undertake a generic quantitative risk assessment. The method of risk evaluation adopted is consistent with LCRM (Environment Agency, 2023) and is being carried out in accordance with CIRIA C552 (CIRIA C552, 2001). Further details regarding the generic risk assessment methodology used are included in **Appendix I**.

The quantitative risk estimation is based on the evaluation of both desk study information collated for the pipeline route together with the Phase 2 and Phase 3B/3C GI data and is presented in **Table H1** and **Table H2 (Appendix H)**. Definitions for probability and consequence are in **Table 4** and **Table 5** of **Appendix I** (respectively). The findings of the revised risk assessment are summarised in **Tables 6.1** and **Table 6.2**.

Table 6.1 and **Table 6.2** summarises the risk classification (without mitigation measures) for the investigated PSCs and exploratory hole locations where unexpected contamination was encountered. The risk classification ratings are taken from the risk assessment tables (Appendix H). Where more than one pathway has been evaluated, the pathway with the highest risk rating is presented. For example, if the risk rating for Construction, maintenance workers and future site users is Moderate/Low for an inhalation pathway and the dermal contact and ingestion pathway risk rating is low as presented in Appendix H, the inhalation pathway will be presented in Table 6.1 and Table 6.2 but both pathways are expanded upon further in Appendix H.

Table 6.1: Summary of Risk Classification for Construction and Maintenance Activities for Areas Investigated at the proposed BPT-E / IPS-E.

PSC No.	Location at Section E	PSCs	Risk Classification (without mitigation measures) for Potential Receptors		
			Construction, maintenance workers and future site users	On Site existing and future property	Groundwater
262 and 314; 319 and 358; 313, 323 and 324, 499	Land south and north of Portsdown Hill Road	Pit - Unspecified, Water Works – Reservoir, Water Works, Pit – Chalk, Landfill (c.60 to 250 m from BPT-E / IPS-E): Potential for Made Ground/infill of unknown material and ground gas generation.	Moderate / Low (inhalation of gases and vapours)	Low	Low
476	New Down Ln, Cosham, Waterlooville PO7 5SE	Works – Parchow Groundworks (c.50 m northwest of BPT-E / IPS-E): Potential for petroleum hydrocarbons, VOCs, metals, polycyclic aromatic hydrocarbons (PAHs) and asbestos.	Low	Low	Low

Table 6.2: Summary of Risk Classification for Construction and Maintenance Activities for Areas Investigated at Section E.

PSC No.	Location at Section E	PSCs	Risk Classification (without mitigation measures) for Potential Receptors					
			Construction, maintenance workers and future site users	Adjacent Land Users	On Site existing and future property	Surface water	Groundwater	Ecology
264, 289	North of Portsdown Hill Rd	Pit – Chalk (PSC 264 c.10 m from the DoL; PSC 289 adjacent to the DoL): Potential for Made Ground with infill of unknown material.	Moderate / Low	N/A for PSCs outside DoL	Low	N/A for PSCs outside DoL	Moderate / Low	N/A for PSCs outside DoL
269, 275, 276, 290	North of Portsdown Hill Rd	Pit – Chalk (up to 25 m from the DoL): Potential for Made Ground with infill of unknown material.	Moderate / Low		Low		Low	
268	East of Portchester Ln	Pit – Chalk (within DoL): Potential for Made Ground with infill of unknown material.	Moderate	Moderate / Low	Low	Low	Moderate	N/A due to absence of ecological receptors within 250 m
270	West of Portchester Ln	Pit – Chalk (within DoL): Potential for Made Ground with infill of unknown material.	Moderate (inhalation of gases and vapours)	Low	Low	N/A due to absence of surface water receptors within 250 m	Moderate	Low
278	East and west of Southwick Rd	Pit – Chalk (within DoL): Potential for Made Ground with infill of unknown material.	Moderate (inhalation of gases and vapours)	Low	Low	N/A due to absence of surface water receptors within 250 m	Moderate	N/A due to absence of ecological receptors within 250 m

PSC No.	Location at Section E	PSCs	Risk Classification (without mitigation measures) for Potential Receptors					
			Construction, maintenance workers and future site users	Adjacent Land Users	On Site existing and future property	Surface water	Groundwater	Ecology
279, 282	West of Southwick Rd	Works – Kilns (within DoL): Potential for petroleum hydrocarbons, VOCs, metals, PAHs, BTEX, phenols and asbestos.	Low	Low	Low	N/A due to absence of surface water receptors within 250 m	Moderate / Low	N/A due to absence of ecological receptors within 250 m
280	West of Pidgeon House Ln	Infilled Land – Pond (c.15 m north of the DoL): Potential for Made Ground with infill of unknown material.	Moderate (inhalation of gases and vapours)	N/A for a PSC outside DoL	Low	N/A for a PSC outside DoL	Moderate	N/A for a PSC outside DoL
292	West of Crooked Walk Ln	Pit – Chalk (within DoL): Potential for Made Ground with infill of unknown material.	Moderate (inhalation of gases and vapours)	Low	Low	N/A due to absence of surface water receptors within 250 m	Moderate / Low	N/A due to absence of ecological receptors within 250 m
476	New Down Ln, Cosham	Works – Parchow Groundworks (adjacent to the DoL): Potential for petroleum hydrocarbons, VOCs, metals, PAHs and asbestos.	Low	N/A for a PSC outside DoL	Low	N/A for a PSC outside DoL	Low	N/A for a PSC outside DoL
499	North of Portsdown Hill Rd	Landfill (within DoL): Potential for Made Ground with infill of unknown material.	Moderate / Low (inhalation of gases and vapours)	Low	Low	Very Low	Moderate / Low	N/A due to absence of ecological receptors within 250 m

6.6 Summary

6.6.1 BPT-E / IPS-E

The purpose of the Phase 2 GI at the BPT-E / IPS-E above ground plant (AGP) location focussed on assessing ground conditions and did not target any specific PSCs. Nonetheless, geo-environmental testing and ground gas monitoring was undertaken at these locations and can inform Health and Safety considerations during construction and operation of the AGP.

- There were no concentrations of contaminants detected in excess of Commercial GAC protective of human health in soils.
- Peak carbon dioxide concentrations were above the short- and long-term WELs. The gas screening value calculated to determine the risk to new buildings was 0.0054 l/h, indicating CS1 classification (no gas protective measures required). Based on the risk assessment, a Moderate / Low risk classification has been identified for impact to construction, maintenance workers and future site users.
- All other potential contaminant linkages were either identified as Low.
- Risks to adjacent land users and ecological receptors have been dismissed based on the BPT-E / IPS-E AGP not crossing any PSCs at locations investigated during Section E Phase 2 GI.
- Risks to surface waters have been dismissed given the absence of surface water bodies within 250 m of the GI locations.
- Risks to groundwater are considered to be low, noting there are no significant contaminant concentrations in soils, downgradient receptors and the presence of a significant unsaturated zone.

6.6.2 Section E DoL

The Phase 3B/3C GI across Section E focused on 15 No. PSCs:

- Pit – Chalk (PSCs 264, 269, 275, 276, 289, 290) within 50 m of the DoL,
- Pit – Chalk (PSCs 268, 270, 278, 292) within the DoL,
- Works – Kilns (PSCs 279, 282) within the DoL,
- Infilled Land – Pond (PSC 280) within 50 m of the DoL,
- Works – Parchow Groundworks (PSC 476) within 50 m of the DoL, and
- Landfill (PSC 499) within the DoL.

Pit – Chalk (PSCs 264, 269, 275, 276, 289, 290)

The GI locations within 50 m of the former chalk pits recorded no PCOC concentrations in soils above the adopted GAC. Soil leachate (2:1) analysis, however, detected concentrations of contaminants above the GAC protective of human health at PSC 264 (nitrate in topsoil and TPH in chalk) and PSC 289 (petroleum hydrocarbons in Head Deposits). TPH were also detected at the adopted GAC level of 10 µg/l in topsoil from 3E3021DS (PSC 289) and natural soils (Head Deposits and chalk) from 3E3036DS (PSC 269), 3E3106TP (PSC 276), and 3E3110DS (PSC 290). Groundwater analysis was not undertaken as the GI locations were dry.

Based on the quantitative risk assessment the following risks were determined:

- A Moderate / Low risk rating was identified from all of these PSCs for impact to construction, maintenance workers and future site users due to direct dermal contact, ingestion and inhalation of dusts, gases and vapours.
- A Moderate / Low risk rating was identified from PSC 264 and PSC 289 for groundwater due to the recorded exceedances of the GAC.
- All other potential contaminant linkages were identified as Low.

Pit – Chalk (PSC 268, 270, 278 and 292)

The GI locations within the former chalk pits recorded no PCOC concentrations in soils above the adopted GAC. Soil leachate (2:1) analysis, however, detected concentrations of contaminants above the GAC protective of human health for iron, manganese, petroleum hydrocarbons, ammonium (NH₄), nitrate (NO₃), nitrite (NO₂) and sulphate (SO₄) in samples retrieved from PSC 268 and PSC 278 as well as for aromatic TPH in one sample from PSC 292. Groundwater analysis was not undertaken as the GI locations were dry. Gas monitoring at PSC 268 and PSC 270 recorded carbon dioxide levels above the long-term WEL.

Information provided by a local resident suggests part of PSC 268 was used to bury cattle infected with the foot and mouth disease in the late 1960s.

Based on the quantitative risk assessment the following risks were determined:

- A Moderate risk rating was identified for groundwater from all potentially infilled chalk pits within Section E DoL due to the recorded exceedances of the GAC.
- A Moderate risk classification was identified from all potentially infilled chalk pits within the Section E DoL for impact to construction, maintenance workers and future site users based on the findings of ground gas monitoring (or as a conservative estimate due to absence of gas data).
- A Moderate risk rating was identified from PSC 268 for impact to construction, maintenance workers and future site users via direct dermal contact, ingestion and inhalation of dusts as a conservative estimate due to the potential presence of pathogens within the Made Ground. Risk rating for this pathway was reduced to Moderate / Low for PSCs 270, 278 and 292.
- A Moderate / Low risk rating was identified from PSC 268 for adjacent land users due to the findings of ground gas monitoring.
- All other potential contaminant linkages were identified as Low.

Works – Kilns (PSCs 279, 282)

The GI locations within 50 m of the former kilns (PSCs 279, 282) located within PSC 278 recorded no PCOC concentrations in soils above the adopted GAC. Soil leachate (2:1) analysis, however, detected concentrations of contaminants above the GAC protective of human health for aromatic TPH, ammonium (NH₄), nitrate (NO₃), nitrite (NO₂) and sulphate (SO₄). Groundwater analysis was not undertaken as the GI locations were dry. Gas monitoring was not undertaken.

Based on the quantitative risk assessment, a Moderate / Low risk rating was identified for groundwater due to the recorded exceedances of the GAC. All other potential contaminant linkages were identified as Low.

Infilled Land – Pond (PSC 280)

Soil and soil leachate (2:1) chemical analyses from the GI location within 18 m of the potentially infilled pond were not requested by SSP. Groundwater analysis was not scheduled as the GI location was dry. Gas monitoring at PSC 280 recorded carbon dioxide levels above the short- and long-term WELs as well as depleted oxygen levels.

Based on the quantitative risk assessment the following risks were determined:

- A Moderate risk classification was identified for impact to construction, maintenance workers and future site users based on the findings of ground gas monitoring.
- A Moderate risk rating was identified for groundwater applying a conservative approach due to absence of soil leachate results.
- A Moderate / Low risk classification was identified for impact to construction, maintenance workers and future site users due to direct dermal contact, ingestion and inhalation of dusts as a conservative estimate given the absence of soil chemical results.
- All other potential contaminant linkages were identified as Low.

Works – Parchow Groundworks (PSC 476)

The GI location within 25 m of Parchow Groundworks recorded no PCOC concentrations in soils above the adopted GAC. Soil leachate (2:1) analysis was not requested and groundwater was not encountered.

- Based on the quantitative risk assessment, all potential contaminant linkages for PSC 476 were identified as Low.

Landfill (PSC 499)

The GI location within 35 m of a Landfill within the DoL recorded no PCOC concentrations in soils above the adopted GAC. Soil leachate (2:1) analysis was not requested and groundwater was not encountered.

Based on the quantitative risk assessment the following risks were determined:

- A Moderate / Low risk rating was identified for impact to construction, maintenance workers and future site users due to inhalation of gases and vapours as a conservative estimate given the absence of gas monitoring data.
- A Moderate / Low risk rating was identified for groundwater as a conservative estimate given the absence of soil leachate data.
- All other potential contaminant linkages for PSC 499 were either identified as Low or Very Low.

7 Geotechnical Testing and Assessment for Section E boreholes

7.1 Geotechnical Testing and Assessment Summary Tables for Section E boreholes

Table 7.1: Summary of Geotechnical Testing Results for Section E Boreholes

Strata	Moisture (%)			Plasticity (%)			Particle Size Distribution (Average of values)		Standard Penetration Test (SPT) Results (uncorrected N value)			Uniaxial Compressive Strength, UCS (MPa)			Point Load Index Testing, PLT (MPa)			Linear (Bulk Density) (Mg/m ³)			Compaction – Max Dry Density (Mg/m ³) (Optimum Moisture content, %)			
	Min	Av	Max	Min	Av	Max	Particle Size	(%)	Min	Av	Max	Min	Av	Max	Min	Av	Max	Min	Av	Max	Min	Av	Max	
Made Ground							Cobbles	0	1	5	8	Not Applicable	Not Applicable	None				Min	Av	Max	None			
							Gravel:	52																
							Sand:	28																
	10	-	28	15	-	24	Silt:	13																
							Clay	7																
Total No. of tests	2			2			1		5			0			0			0			0			
Head Deposits							Cobbles	2	1	21	21	Not Applicable	Not Applicable	None				Min	Av	Max	1.77 (13)			
							Gravel:	35																
							Sand:	13																
	17	22	29	14	19	23	Silt:	35																
							Clay	15																
Total No. of tests	7			7			8		1			0			0			0			1			
Lambeth Group							Cobbles	0	None	0	0	Not Applicable	Not Applicable	None				Min	Av	Max	1.71 (16)			
							Gravel:	12																
							Sand:	12																
	20	-	25	40	-	55	Silt:	12																
							Clay	64																
Total No. of tests	2			2			2		0			0			0			0			1			
White Chalk Subgroup							Cobbles	None	3	Increasing with depth	>50 (95 to 270mm)	1.67	2.14	2.57	0.10	0.18	0.30	1.71	2.01	2.13	1.59 (20)	-	1.70 (23)	
							Gravel:																	
							Sand:																	
	18	21	27	5	6	9	Silt:																	
							Clay																	
Total No. of tests	12			10			0		25			7			24			30			2			

Laboratory California Bearing Ratio (CBR) testing was also conducted for Section F samples, CBR values ranged for:
 White Chalk Subgroup: 0.30 and 1.20 m (2 tests): CBR Top: 18 – 35 % (Average: 26.5 %) CBR Base: 34 – 38 % (Average: 36 %)

Table 7.2: Geochemical Testing – BRE SD1

Geochemical Testing				
Geology	BRE SD1 values ¹			
	Test type	Min	Max	Characteristic Value
Made Ground (MGR)	Water soluble SO4 (mg/l)	None		
	Acid soluble SO4 (%)			
	Total Sulphur (%)			
	Total Potential Sulphate (%)			
	pH			
	No. Tests			
Head Deposits (HEAD)	Test type	Min	Max	Characteristic Value
	Water soluble SO4 (mg/l)	Below limit of detection	90	<500
	Acid soluble SO4 (%)	0.02	0.07	0.07
	Total Sulphur (%)	0.01	0.08	0.08
	Total Potential Sulphate (%)	0.03	0.24	0.24
	pH	8.3	8.9	8.3
No. Tests	4			
Lambeth Group (LMBE)	Test type	Min	Max	Characteristic Value
	Water soluble SO4 (mg/l)	40		<500
	Acid soluble SO4 (%)	0.01		0.01
	Total Sulphur (%)	0.02		0.02
	Total Potential Sulphate (%)	0.06		<0.24
	pH	8.9		8.9
No. Tests	1			
White Chalk Subgroup (WHCK)	Test type	Min	Max	Characteristic Value
	Water soluble SO4 (mg/l)	Below limit of detection	150	<500
	Acid soluble SO4 (%)	0.02	0.08	0.08
	Total Sulphur (%)	0.02	0.03	0.03
	Total Potential Sulphate (%)	0.06	0.09	<0.24
	pH	8.5	8.6	8.5
No. Tests	6			

Table 7.3: Additional Tests - White Chalk Subgroup

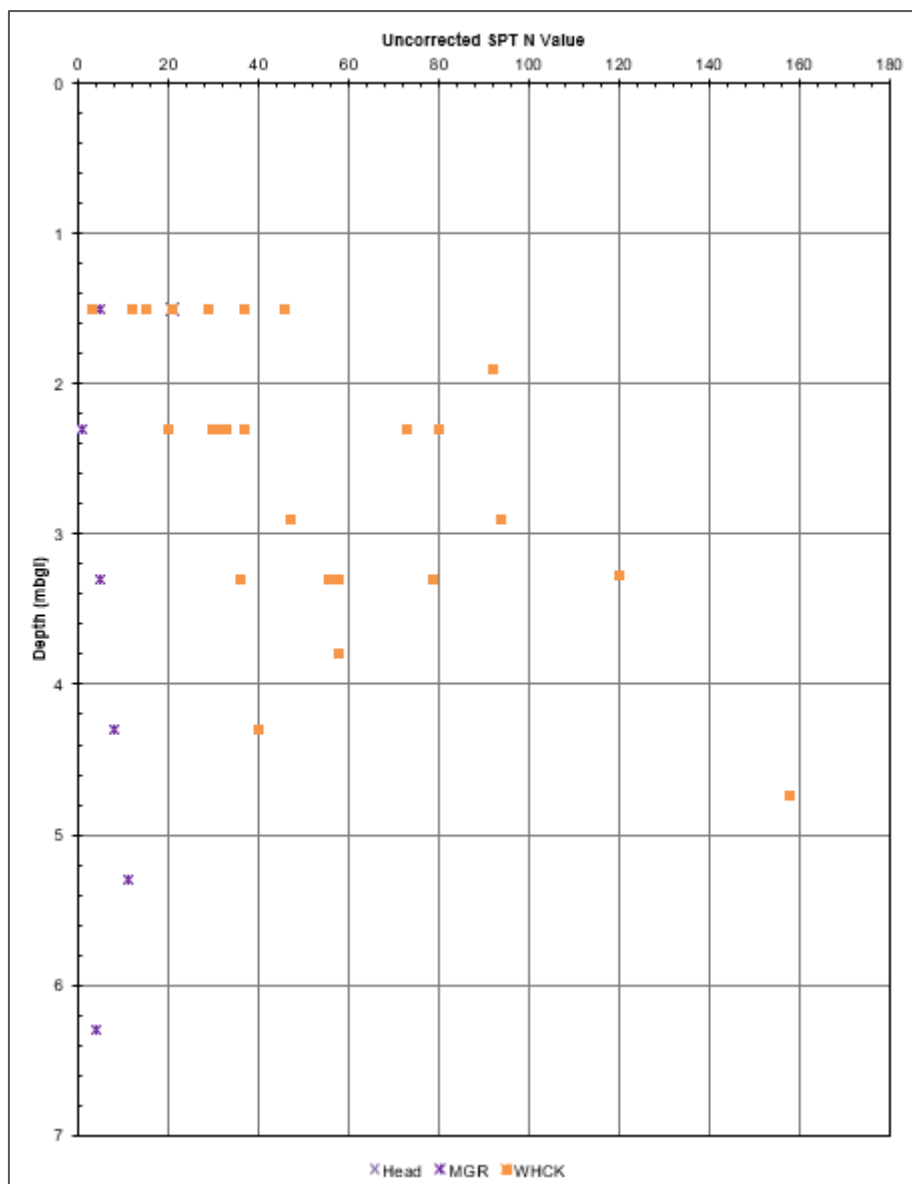
Test	Range of Values	Average
Chalk Crushing Value (%)	3.50 – 5.90 (2 tests)	4.70
Porosity (%)	33 – 43 (30 tests)	40.0
Saturated Moisture Content (%)	18 – 28 (29 tests)	24.4

7.2 SPT vs Depth Relationship for Section E boreholes

Graph 7.1 shows SPTs vs depth for Made Ground, Head Deposits and White Chalk Subgroup and suggests the following:

- A general increase in SPT N values with depth for Made Ground. All these tests were completed within the same borehole (3E3115DS) and given the typical variability of Made Ground should only be deemed applicable for that particular borehole location.
- Chalk SPT tests varied across the site though when sufficient were completed within a borehole a general increase of N value with depth was noted (note SPT N-Values in excess of 50 have been correlated to higher values based on recorded test penetration).
- Insufficient data is available for comment on Head Deposits (one test).

Graph 7.1 SPT vs Depth per strata across Section E boreholes

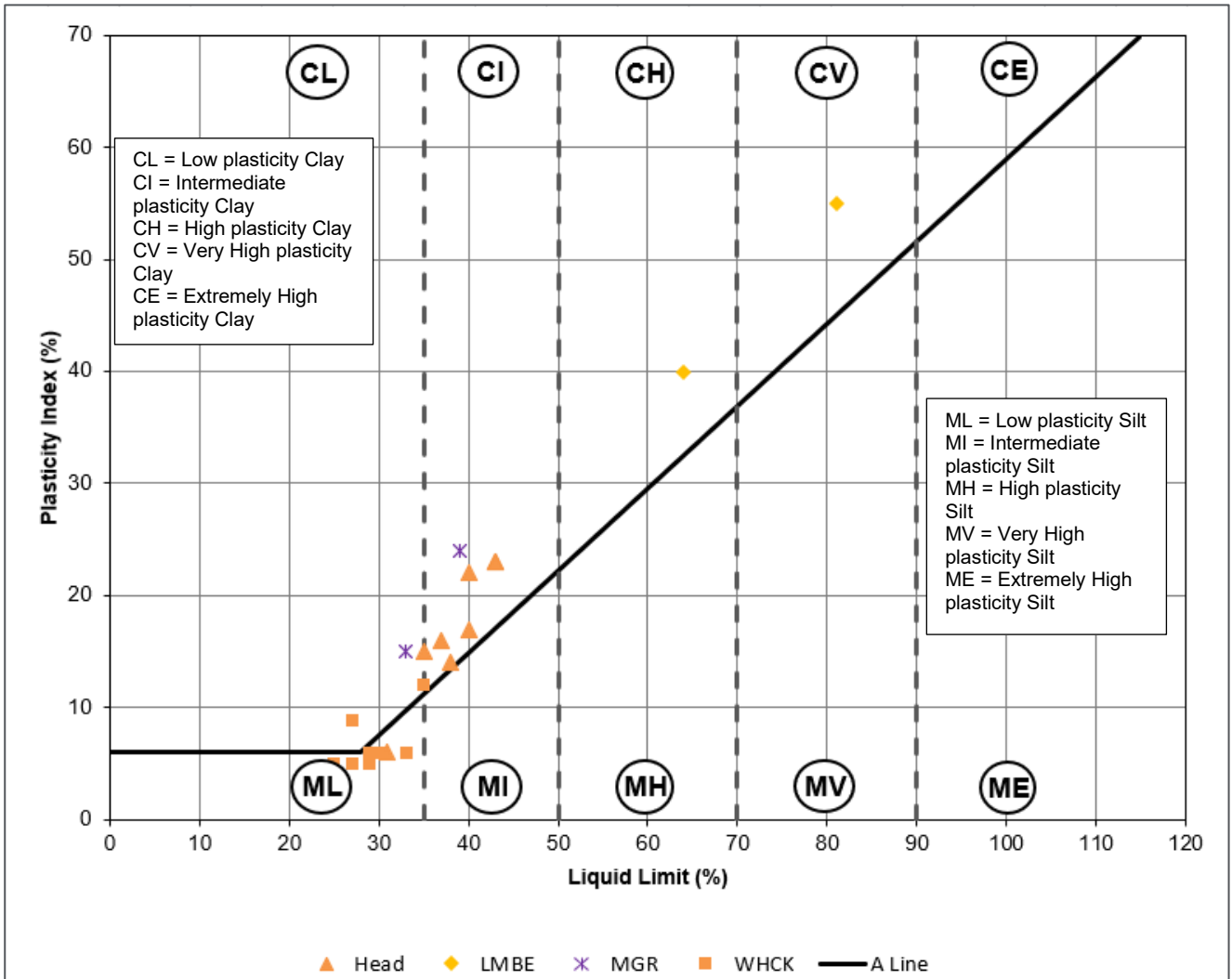


7.3 Plasticity for Section E boreholes

Graph 7.2 shows the A-line plot for Section E. The following is noted:

- The Made Ground samples tested are noted as low to intermediate plasticity clay,
- Head Deposits is a low to intermediate plasticity clay and low plasticity silt,
- Lambeth Group is a high to very high plasticity clay, and
- White Chalk Subgroup (WHCK) is a low plasticity silt and clay.

Graph 7.2 Plasticity per strata across Section E boreholes

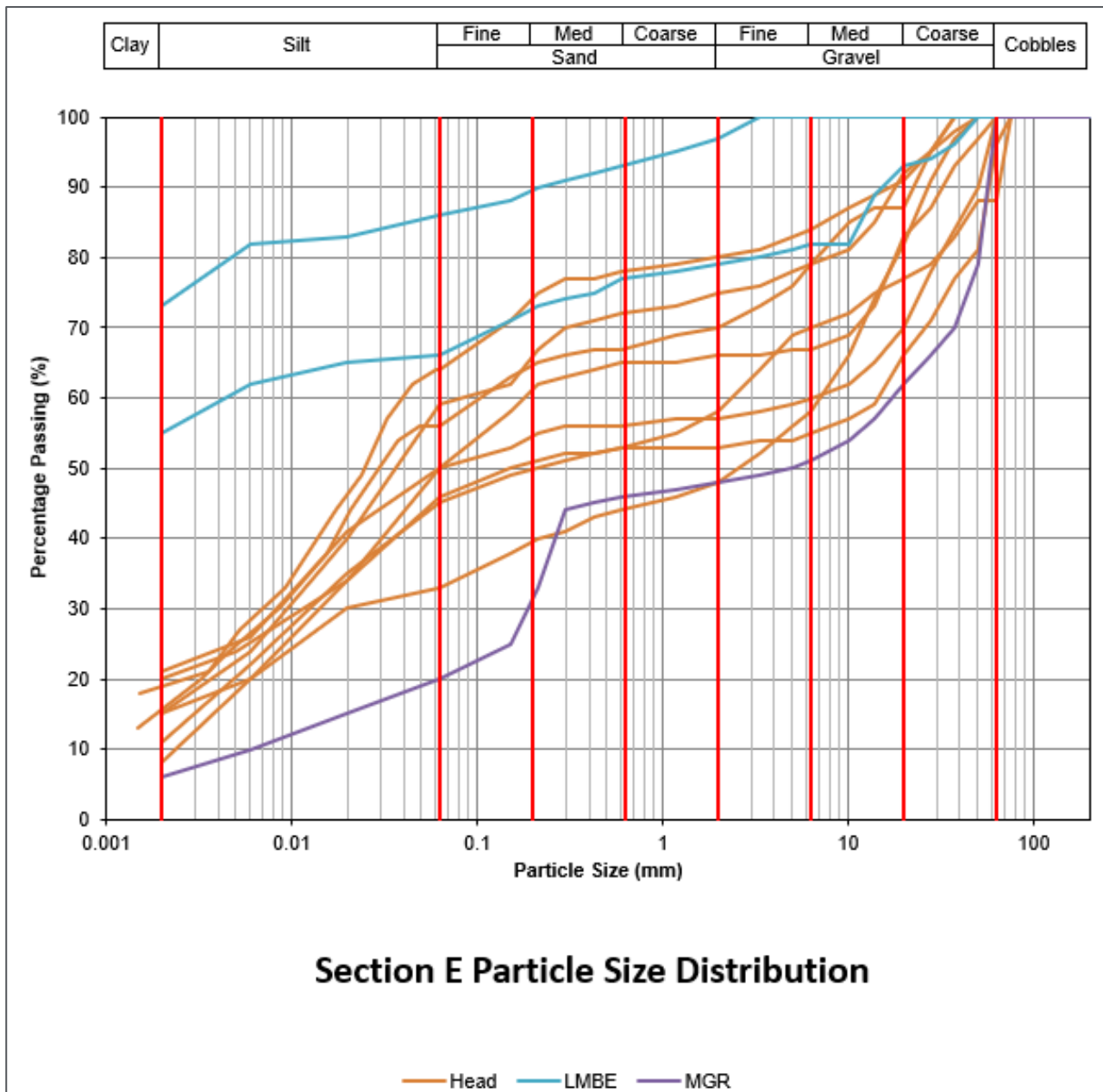


7.4 Particle Size Distribution for Section E

Graph 7.3 shows the following:

- The Made Ground sample tested is within the sandy gravel particle size distribution, this does not align with the descriptions in **Table 4.3** but the material is expected to vary from area to area..
- Head Deposits are noted as intermixed gravel, sand, silt and clay which generally aligns with the soil descriptions.
- Lambeth Group is within the clay particle size distribution, aligning with the descriptions in **Table 4.1**.

Graph 7.3 Particle Size Distribution per strata across Section E boreholes



7.5 Geotechnical Design Parameters for Section E boreholes

Based on the borehole log descriptions and results obtained from the in-situ and laboratory tests, the characteristic values for all strata have been derived and are shown in **Table 7.4**.

Table 7.4: Geotechnical Design Parameters for Boreholes at BPT-E / IPS-E within Section E Boreholes

Strata	Geotechnical Design Parameters											
	Native Soil Modulus, E'_3 (MN/m ²) ^a	Elastic Modulus E_u b ²	Secant Modulus, E_s : ^f	Bulk weight density, γ (kN/m ³) ^c	Constant angle of shearing resistance, ϕ (°) ^c	Cohesion (°) ^f	Undrained Shear Strength, C_u (kPa) ^{b1}	Coefficient of Volume Compressibility, m_v (m ² /MN) ^{b1}	Uniaxial Compressive Strength (MPa)	Concrete Aggressivity ^d	Earthworks ^{b2}	From PSD results Embedment class with 'as-dug' soils ^e
Made Ground (MGR)	Soft to firm clay: 1.5	Soft to firm clay: Short Term: 2 Long Term: 1	Not Applicable	15 - 18	Based on average plasticity result of 20%, $\phi = 26^\circ$	0	20	0.3	Not Applicable	No results, variable material	1 V: 3.0 H	Potentially selected material suitable as S4 bedding – subject to further classification testing including liquid limit and PSD.
Head Deposits (HEAD)	Soft (locally very soft) to stiff clay: 1.5	Soft (locally very soft) to stiff clay: Short Term: 2 Long Term: 1	Not Applicable	14 - 18	Based on average plasticity result of 17%, $\phi = 27^\circ$	0	20	0.15	Not Applicable	DS-2 AC-2	1 V: 3.0 H	Suitable as S4 bedding – is a fine-grained soil, liquid limit less than 50%, medium plasticity and more than 25% coarse grained.
Lambeth Group (LMBE)	Soft to stiff clay: 1.5	Soft to stiff clay: Short Term: 2 Long Term: 1	Not Applicable	15 - 18	Based on average plasticity result of 48%, $\phi = 21^\circ$	0	20	0.3	Not Applicable	DS-1 AC-1	1 V: 3.0 H	Not suitable for structural reuse.
White Chalk Subgroup (WHCK)	Silty gravel and very weak rock >40	Structured Chalk 1000-30000 MN/m ² ^f	Structureless Chalk, $D_m - 6\text{MN/m}^2$ ^f $D_c - 75 - 200\text{MN/m}^2$ ^f Structured Chalk Grade B & C – 120 - 900 MN/m ² ^f Grade A – 1500 - 3000 MN/m ² ^f	19 – 21	Structureless Chalk (D_m and D_c) - 31 ^{of} Structured Chalk (A to C) - 39 ^{of}	Structureless Chalk (D_m and D_c) – 0 ^f Structured Chalk (A to C) – 20 ^f	-	-	1.67 – 2.91	DS-1 AC-1	Structureless chalk: 1 V: 2 H ^{b,f} Structured chalk, 1 V: 1 H ^{b,f}	Imported granular sidefill materials S1, S2

^a (BSI, 2020) Table 13

^{b1} (Tomlinson, 2001) Table 2.5, Table 2.11, Figure 2.33, Section 2.6.6

^{b2} (Look, 2007) Table 11.7, Table 11.8, Figure 14.1, Table 14.10

^c (BSI, 2015b) Figure 2 and Section 4.3.1.4.8

^d Geotechnical Laboratory testing.

^e (BRE, 2005) Table C1

^f (BSI, 2020) Table 24

^f (Lord et al., 2002)

7.6 Electrical Resistivity Testing

In situ apparent resistivity testing was undertaken at several locations along the route; four locales noted Head Deposits overlying Chalk; three noted Head Deposits overlying the Lambeth Group and three were located directly upon the chalk, the results are presented in **Table 7.5**.

Table 7.5: Electrical Resistivity Results for Section E

Hole ID	Electrode spacing (m)			
	1.0	2.0	3.0	4.0
	Apparent Resistivity (mean) (Ω .m)			
3E3028HP	150	170	170	160
3E3038HP	18	21	21	14
3E3103HP	13	16	14	12
3E3104HP	32	31	32	22
3E3105HP	25	35	45	17
3E3107HP	77	100	130	140
3E3109HP	140	130	170	170
3E3111HP	88	97	110	110
3E3113HP	160	180	190	190
3E3119HP	69	99	120	130

The results are typically as expected with the three tests completed in the areas underlain by the Lambeth Group showing the underlying soil as highly corrosive whilst those underlain by the chalk noted as mildly corrosive. The exception is the result from 3E3038HP which notes the soil as highly corrosive but is underlain by the chalk. This is unexpected and considered anomalous though the chalk. However, it is recommended that a further resistivity test of the area is completed to confirm.

7.7 Infiltration and Permeability Testing

Infiltration Soakaway Testing and falling head permeability testing was undertaken at multiple locations across Section E. The results are presented in **Table 7.6**.

Table 7.6: Infiltration rate and falling head permeability testing results.

BH ID	Depth of Test (m bgl)	Test Type	Borehole / Standpipe	Test	Result (m/s)	Strata
3E7501IT	2.50	Infiltration Soakaway Testing	Borehole	1	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	White Chalk Subgroup
3E7502IT	2.5			1	1.27×10^{-5}	
3E7502IT	2.5			2	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7502IT	2.15			3	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7503IT	2.3			1	9.69×10^{-6}	
3E7503IT	2.3			2	1.40×10^{-5}	
3E7504IT	2.4			1	1.22×10^{-5}	
3E7504IT	2.25			2	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7504IT	2.2			3	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7505IT	2.5			1	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7505IT	2.5			2	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7505IT	2.5			3	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7506IT	2.5			1	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7507IT	2.5			1	1.28×10^{-5}	
3E7507IT	2.5			2	1.47×10^{-5}	
3E7507IT	2.4			3	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E7508IT	2.4			1	Unable to reliably determine soil infiltration rate as 25% effective depth not achieved.	
3E3019DS	1.5 – 4.50	Falling Head Permeability Test	Standpipe	1	7.50×10^{-8}	Made Ground
3E3035DS	1.0 – 3.30			1	1.10×10^{-6}	
3E3115DS	1.0 – 3.0			1	1.30×10^{-6}	

Infiltration soakaway testing provides a soil infiltration rate and Falling head permeability test provide the permeability (k).

8 Geotechnical Considerations

8.1 Ground Conditions

The ground conditions recorded are generally consistent with geological mapping for the area.

Made Ground (comprising silty, gravelly clay) was encountered at 3E3023TP and 3E3115DS at PSC 268 and 278; this was consistent with information in the desk study.

Head Deposits are locally present across Section E and were recorded to a maximum depth of 2.90 m bgl. Along the route Head Deposits are in north-south oriented linear layers, often infilling minor chalk valleys, extending from upslopes of hills down to the margins of alluvial floodplain. Head Deposits are comprised of poorly sorted stratified deposits formed by hill wash and soil creep comprising variably gravel, sand, silt, clay, locally with lenses of peat and organic material.

Head Deposits have been proven to be more widespread than presented by mapping. Head Deposits were encountered in 3E3019DS, 3E3021DS, 3E3036DS, 3E3110DS, 3E3113HP and 3E3119HP at the ground surface, whereas the mapping showed the White Chalk Subgroup at the ground surface. 3E3034HP and 3E3111HP align with mapping with Head Deposits encountered at the surface.

London Clay is close to areas of the pipeline in the east of Section E; however, it was not encountered in the GI. London Clay mainly comprises bioturbated or poorly laminated, blue-grey or grey-brown, over-consolidated silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay.

Lambeth Group deposits consisting of the Reading Formation (Undifferentiated) are noted in the east of Section E underlying Head Deposits and generally comprise vertically and laterally variable sequences mainly of over-consolidated clay, which is often mottled and multicoloured with some gravelly or sandy clays.

White Chalk Subgroup is likely to be encountered at all depths from between 0.2 m bgl to a minimum depth of 30 m across the majority of Section E depending on the depth and presence of localised Made Ground, superficial deposits and Lambeth Group bedrock. White Chalk Subgroup will be the founding strata for Break Pressure Tank - E (BPT-E / IPS-E) (to between 2.5 - 6 m bgl) and the likely founding strata for the majority of the 1,200 mm diameter ductile iron (DI) open-cut pipeline sections (within 3 – 6 m bgl).

Lambeth Group deposits consisting of the Reading Formation (Undifferentiated), is noted in the east of Section E underlying Head Deposits and generally comprises vertically and laterally variable sequences mainly of over consolidated clay, often mottled and multicoloured with some gravelly or sandy clays.

London Clay is within close proximity to areas of the pipeline in the east of Section E however was not encountered in the GI, mainly comprising bioturbated or poorly laminated, blue-grey or grey-brown, over consolidated silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay.

8.2 Foundation Design

For the construction of fully below ground structures such as pipework, a net reduction of ground pressure is anticipated and therefore bearing capacity and settlement issues are not anticipated. Partially below ground structures may impose a net increase in ground pressure and bearing capacity and settlement may therefore need to be considered.

IPS-E will be above constructed above ground. BPT-E will be founded onto chalk up to 1 m below ground level (bgl). The available ground investigation notes both structureless (typically Dc) and structured chalk

(B2/B3) at the proposed founding depth. A lower bound allowable bearing capacity (approximately equivalent to the quoted yield stress) is estimated at 250 kPa for both forms of chalk. Ultimate bearing capacity (q_u) is estimated to be at a minimum 1.5 MPa for both forms of chalk (Lord et al., 2002). Any structureless D_m Chalk should be removed and replaced.

8.3 Shallow Excavation

8.3.1 Excavation

Shallow excavations for the proposed open-cut pipeline route are expected to be constructed within Made Ground, Head Deposits, Lambeth Group and White Chalk Subgroup. Excavations are expected to be within the capability of conventional plant.

Where space permits (e.g. in open land), it may be possible to construct the shallow pipework within unsupported battered trenches though sides of the excavation may be prone to drying out and weathering could cause sides to slip. This is generally applicable to Head Deposits and Lambeth Group (clay and silt) and with excavations open for a long time. Supported battered trenches would be beneficial to prevent this from occurring (CIRIA, 1992). Head Deposits commonly contain relic shear surfaces, which may become unstable during excavation so these areas should be monitored during construction.

The scope of excavation support required in Chalk will depend on the excavation method, period for which the excavation is to remain open and the groundwater control method; shallow, short duration excavations above the groundwater table may be possible unsupported, however deep excavations open for long periods and/or below the groundwater table may need full excavation support. Groundwater was not encountered during the GI but its presence within excavation depth range cannot be ruled out across the extent of the construction works.

Chalk and chalk derived deposits (Head in this case) are highly susceptible to softening in the presence of water and can degrade into an unworkable slurry. It is recommended that, if required, dewatering is carried out in advance of excavation (see 8.3.2) and excavations are protected from the ingress of surface water. It would be prudent to carry out large excavations in Chalk during the summer when the risk from inclement weather is lower.

8.3.2 Groundwater Control

Based on the ground investigation records, groundwater entries are unlikely to be encountered in shallow excavations within all strata. However, localised areas of high groundwater may occur in the western portion of Section E. The land in this portion undulates between approximately 50 m and 70 m OD, and the local hydrogeological map notes the potentiometric level to be approximately 50 m OD.

8.4 Flotation

Flotation effects should be considered across the route; however, groundwater is not expected to be present at shallow depths as shown by the groundwater monitoring and strikes during drilling. No instances of artesian groundwater conditions were encountered. Therefore, the risk of flotation is expected to be minimal.

8.5 Ground Aggressivity

8.5.1 Concrete

The Building Research Establishment (BRE) Special Digest 1 states that the geological strata most likely to have a substantial sulphate content are ancient sedimentary clays, including the Lambeth Group (BRE, 2005).

The results of the pH and sulphate tests (SO_4) undertaken on Head Deposits, Lambeth Group and White Chalk Subgroup, on all natural ground material samples recovered indicate that worst case design sulphate class is DS-2 and the worst case aggressive chemical environment for concrete (ACEC) class AC-2 within the Head Deposits. No testing was undertaken within encountered Made Ground. At the BPT-E/IPS-E, concrete aggressivity testing deemed the White Chalk Subgroup to have a worst case design sulphate class of DS-1 and the worst case aggressive chemical environment for concrete (ACEC) class AC-1.

8.5.2 Ferrous Metals

The Lambeth Group across the proposed pipeline route has the potential to be aggressive towards ferrous metals and the available insitu testing has confirmed the material as highly corrosive.

Chalk is typically mildly aggressive due to ferrous metals and this has been typically confirmed by the available testing with the exception of 3E3038HP (approx. chainage 10420) which notes the underlying soil as highly corrosive. It is considered this test is anomalous and potentially due to test error.

Different pipeline coatings can be used to overcome the aggressivity across separate parts of Section E where chalk is at the surface.

Following guidance published by TRL (Eyre, D., & Lewis, D.A., 1987) if the ground has the below characteristics, it is considered aggressive towards ferrous metals with:

- Characteristic apparent resistivity value of 10 Ωm
- Organic content greater than 0.2 %
- Plasticity index greater than 15 %
- Poorly drained area or groundwater above pipework level
- Moisture content greater than 20 %
- pH greater than 6
- Soluble sulphate 500 to 1000 mg/l
- Aggressive compounds in Made Ground (e.g. cinder or coke)

Eyre and Lewis' (1987) Contractor Report has two soil corrosivity assessment methods; Table A1 and B1. Using worst case scenario, these two assessments class Section E as aggressive to highly aggressive (Table A1) and very aggressive (Table B1) respectively (Eyre, D., & Lewis, D.A., 1987).

8.6 Natural Cavities

Dissolution is a common weathering mechanism in chalk. Typical features associated with dissolution in chalk include an irregular interface with the cover material, downward tapering pipes infilled with compressible material and voids. If undetected, dissolution features pose a risk to construction through differential settlement or collapse.

No natural cavities were identified in Section E in the Groundsure report (Groundsure, 2022), and no evidence of dissolution features was identified within the boreholes drilled in Section E. However, an anomaly that may potentially be associated with a dissolution feature was noted during the geophysical survey within the BPT-E / IPS-E area.

The highest risk areas are generally found where surface water originates on Tertiary beds and soft water infiltrates through those into the chalk, though the overall risk is dependent not only on stratigraphic sequence but also on hydrogeological and geomorphological factors. A conservative SHR_N (Subsidence Hazard Rating number) encompassing areas of the route with Tertiary beds overlying chalk was determined by the approach

proposed by Edmonds, is 57, indicating a very low hazard category (i.e., statistically 0.5 % solution features recorded in the natural cavity database occurred in at sites with these characteristics, 10 solution features per 100 km²) (Edmonds, 2001). The risk would generally significantly reduce upslope.

The SHRN (Subsidence Hazard Rating number) at the proposed BPT-E / IPS-E site, determined by the approach proposed by Edmonds is 32, indicating no subsidence hazard category (i.e., statistically 0.1 % solution features recorded in the natural cavity database occurred at sites with these characteristics, 2 solution features per 100 km²) (Edmonds, 2001).

The SHRN indicates that soluble rocks are either not thought to be present within the ground, or not prone to dissolution. It should be noted that no evidence of dissolution features was identified within the boreholes drilled across Section E.

8.7 Frost Susceptibility

Chalk, and chalk derived soils, is susceptible to frost damage; this is likely to affect the upper 0.6 m of ground across the site during periods where air temperatures are below freezing, resulting in frost heave leading to the ground rising up. Where any ancillary structures are to be constructed within the top 0.3 – 0.5 m below ground level, a coarse sandy gravel / other free draining material should be placed a minimum of 0.3 m thick to prevent the effects of frost heave (Lord et al., 2002).

8.8 EM Survey and ERT Survey Construction Considerations

The below text is from the SOCOTEC report:

“A relatively uniform trend of conductivity was measured across the whole area in both the vertical and horizontal configurations. One conductive region identified in the upper 3 m of the subsurface was located in the southern sector, no other significant changes of conductivity associated with the presence of dissolution features was identified.

One anomaly was identified within the ERT survey data, which appears in the southern sector of the survey area. This anomaly is present in the data as an area of low resistivity, which is uplifted. This anomaly is consistent in size, shape and location of the high conductivity anomaly in the EM survey”.

The anomaly noted may be related to chalk dissolution feature(s) and should be avoided as far as reasonably practical during construction of BPT-E / IPS-E due to the inherent potential risk for subsidence

If constructing the BPT-E / IPS-E in the areas highlighted within the south of the AGP area as shown within geophysical report from SOCOTEC (70 m x 80 m at NGR 466431E, 106521N), further investigation should be carried out.

If the BPT-E / IPS-E is sited in an area containing water filled chalk dissolution features; sufficient dewatering of the feature should be done in order to not destabilise the surrounding hydrogeological / hydrological system (current investigations suggest groundwater at 25 m+ below ground level). It would be advisable to use imported gravel backfill surrounding the foundations of BPT-E / IPS-E so that in the event of water ingress from the side walls, water could still move through the subsurface without leading to further water storage.

If the BPT-E / IPS-E is sited in areas of low conductivity and high resistivity where dissolution features are air filled, it is also advisable to surround the side walls and foundations with imported gravel backfill to prevent settlement and maintain stability during and after construction.

8.9 BPT-E / IPS-E

8.9.1 Bearing Resistance at BPT-E / IPS-E

The BPT-E / IPS-E comprises a break pressure tank and pumping station, surge vessels together with access roads on site and other ancillary structures. Ultimate bearing resistance calculations have been completed for the largest structures (break pressure tank and pumping station) founded on White Chalk Subgroup with removal of topsoil and based on a pad foundation depth of up to 1 m bgl

Break Pressure Tank (11 m width x 24 m length x 8 m height) and Pumping Station (21 m width x 31 m length x 8 m height)

Using dimensions provided by the Applicant on 11 October 2024, the preliminary assessment of bearing resistance has been used based on CIRIA574 (Lord et al., 2002). The yield stress (approximately equivalent to an “allowable” bearing pressure) quoted for a structureless D_c chalk is in the region of 250 kPa (Lord et al., 2002); this would suffice for a permanent gross load of 65 kPa for the pumping station.

8.9.2 BPT-E/IPS-E proposed geotechnical parameters

Where the rotary core boreholes (2E3000RC, 2E3001RC, 2E3002RC) and infiltration test locations (3E7501IT to 3E7508IT inclusive) at the BPT-E/IPS-E location, the break pressure tank with a foundation depth of up to 1 m bgl and the pumping station founded at ground level the following geotechnical parameters would apply:

Where CIRIA Grade D_c chalk is described:

- Secant moduli, E_s , would be 75 MPa (long term) and 200 MPa (short term).
- Yield modulus, E_y , would be 20 – 30 MPa
- Yield stress, q_y , would be 250 – 500 kPa

Where CIRIA Grade B and Grade C low density chalk is described:

- Secant moduli, E_s , would be 200 - 700 MPa (short term).
- Yield modulus, E_y , would be 15 – 35 MPa
- Yield stress, q_y , would be 250 – 500 kPa

These geotechnical parameters are associated with chapter 7 of Engineering in Chalk (Lord et al., 2002).

8.10 Geotechnical Hazard Assessment

Table 8.1 summarises potential geotechnical hazards associated with the Site during and post construction.

Table 8.1: Potential Hazards

Hazard	Source of information/comment	Mitigation method
Unforeseen Ground Conditions	<p>Project specific ground investigation undertaken in 2023 to inform outline design.</p> <p>Trench collapse and uncontrolled ground settlement where areas of putty chalk recovered as soft silt are encountered that is inadequate for founding of pipework and break pressure tanks. There may be settlement features where superficial Head Deposits are thicker.</p>	<p>Liaise with the Applicant and Principal Contractor to agree on potential exploratory locations including a site visit, reviewing utility drawings and geological maps. Where inadequate, trial holes should be undertaken with insulated digging tools or mechanical excavators to prove ground and groundwater conditions.</p>
Groundwater	<p>Lack of knowledge of groundwater conditions, inadequate dewatering, unstable ground.</p> <p>Available GI information suggests a low groundwater table in most area investigated though potentially shallow in western portion of site.</p>	<p>2E3000RC, 2E3002RC, 3E3019DS, 3E3035DS, 3E3115DS to have post-fieldwork monthly monitoring visits to confirm very low or no groundwater levels for a minimum period of 12 months.</p>
Excavation Collapse	<p>Head Deposits commonly contain relic shear surfaces promoting instability issues</p> <p>Structureless chalk prone to soften rapidly and become unstable when worked in presence of water (ground/surface)</p> <p>Potential for open fractures at unfavourable orientation within structured chalk</p>	<p>When excavating, assess the degree of fracturing and structure as the excavation progresses in depth and lateral extent Check to see if the excavation remains intact or blocky. If the ground becomes increasingly laminated and irregular, excavate in reduced thicknesses rather than larger blocks at a time to prevent the likelihood of collapse.</p> <p>Use vertical sided trench support: trench sheets or boxes, as required.</p> <p>Suitable methods of surface water and groundwater control to be in place when working through chalk deposits</p> <p>Blind chalk as soon as practicable</p>
Excessive settlement of structures, pipe failure / bursts.	<p>Geological logs displayed strata to a maximum of 30 m bgl.</p> <p>Anomalies picked up in geophysical survey potentially associated with solution features</p>	<p>Ensure that proposed pipework avoids these areas of unsuitable ground and existing assets where possible. If structures are within the route alignment, arrange with the</p>

Hazard	Source of information/comment	Mitigation method
		<p>Applicant and appropriate asset owners that the impact of the proposed construction is reviewed, and appropriate mitigation undertaken.</p> <p>Ensure that the design includes for the use of appropriate groundwater control and excavation support methods to be employed for the encountered ground to minimise any impacts</p> <p>For the construction of BPT-E / IPS-E, use imported gravel backfill surrounding the side walls, below and surrounding the foundations of the structure to prevent settlement and maintain stability throughout.</p>
Existing buried services - strike, injury	Utility drawings provided to the Principal Contractor / Ground Investigation Contractor may not reveal all services underground and may differ.	Ensure that utility providers are contacted in advance of excavation works with any uncertainty proven on site by those providers having engineers on site. They should be in attendance where necessary such as near high risk locations. For further confirmation, Ground Penetrating Radar (GPR) and/or PAS128 surveys may also be performed.
Striking Unexploded Ordnance (UXO)	The Site was impacted by bombing in WWII.	<p>Preliminary Risk Assessments were conducted specific to each exploratory hole location to reduce the section-wide greater UXO risk.</p> <p>Preliminary Risk Assessments were conducted specific to each exploratory hole location to reduce the section-wide greater UXO risk.</p> <p>Detailed UXO assessment undertaken with the following findings (Zetica, 2024):</p> <ul style="list-style-type: none"> ▪ No significant sources of UXO hazard have been identified. ▪ Proceed with works. An UXO awareness briefing is prudent for staff involved in excavations. <p>LOW UXO hazard level is applied to Section E</p>
Aggressive Chemical Environment for Concrete/ Failure of new assets due to degradation	<p>BRE test results from the GI show the maximum available design sulphate class is DS2. Corresponding Aggressive Chemical Environment for Concrete (ACEC) is AC2 both associated with Head Deposits.</p> <p>Lambeth Group recorded as highly corrosive</p>	Ensure that additional testing is carried out where areas with Head Deposits, and Lambeth Group are identified along Section E to fully categorize the design sulphate class and concrete aggressivity design sulphate class.

9 Conclusions

9.1 Geotechnical

The GI data for Section F comprises 39 No. investigation locations along the linear route, non-pipeline infrastructure at BPT-E / IPS-E and at the Potential Sources of Contamination. The GI data comprising 11 No. investigation locations is appropriate for the construction of BPT-E / IPS-E.

Open-cut construction is expected to be required under small watercourses and minor roads. Head Deposits, Lambeth Group and White Chalk Subgroup are likely to be encountered during open-cut construction, with limited amounts of Made Ground also expected locally along the route. White Chalk Subgroup will be present across the majority of Section E with clays and silts of Head Deposits and Lambeth Group likely in localised areas.

Groundwater is not expected to be an issue across Section E since shallow groundwater was only present at 3E3035DS during monitoring. However, localised areas of high groundwater may occur in the western portion of Section E. The land in this portion undulates between approximately 50 m and 70 m OD, and the local hydrogeological map notes the potentiometric level to be approximately 50 m OD. Across the pipeline, the flotation risk is expected to be minimal as the majority of the pipeline will be above the groundwater.

Ground aggressivity testing within natural strata showed the worst case design sulphate class is DS-2 and the aggressive chemical environment for concrete (ACEC) class AC-2. No ground aggressivity testing has been undertaken on Made Ground.

White Chalk Subgroup has an embedment class as S1 or S2 using granular sidefill materials. Head Deposits will be suitable as an S4 bedding, however further testing should occur during construction. The Lambeth Group is not suitable for structural reuse.

One anomaly was identified within the ERT survey data in the southern sector of the survey area shown within the drawings of the SOCOTEC EM and ERT survey report. This anomaly was present in the data as an area of low resistivity and was within the same area where BPT-E / IPS-E is proposed. This anomaly was consistent in size, shape and location of the high conductivity anomaly in the EM survey.

All the strata in Section E (superficial and bedrock) are highly / very aggressive towards ferrous metals.

9.2 Geo-Environmental

9.2.1 BPT-E / IPS-E

The Phase 2 GI in Section E focused on ground conditions at the proposed BPT-E / IPS-E location and did not target any PSCs within the above ground plant area. However, PSC 476 was identified within 50 m of construction and PSCs 262, 313, 314, 319, 323, 324, 358 and 499 were located within 250 m of the GI locations and have been subject to a risk assessment.

The revised risk assessment for the PSCs, updated from the desk study with Phase 2 GI data, identified a Moderate / Low risk ranking for construction, maintenance workers, and future site users, due to the potential for inhalation of gases and vapours from investigated potentially infilled land PSCs. Thus, impacts from PSCs 262, 313, 314, 319, 323, 324 and 358, and 499 cannot be fully discounted without further assessment or mitigation of this potential contaminant linkage.

Low risk to on-site existing and future property (buildings and buried services), groundwater, and ecological receptors were identified from all investigated PSCs, and these potential contaminant linkages do not require further assessment.

9.2.2 Pipeline Section E

The Phase 3B/3C GI in Section E focused on ground conditions along the DoL and targeted seven PSCs within the DoL as well as eight PSCs within 50 m of the DoL. The revised risk assessment for the PSCs, updated from the desk study with Phase 3B/3C GI data, identified:

- a Moderate / Low to Moderate risk ranking for construction, maintenance workers, and future site users, due to the potential for inhalation of gases and vapours from twelve investigated potentially infilled land PSCs (264, 268, 269, 270, 275, 276, 278, 280, 289, 290, 292 and 499),
- a Moderate / Low to Moderate risk ranking for construction, maintenance workers, and future site users, due to direct dermal contact, ingestion and inhalation of dusts from eleven PSCs (264, 268, 269, 270, 275, 276, 278, 280, 289, 290 and 292),
- a Moderate / Low to Moderate risk ranking for groundwater due to leaching of contaminants from ten investigated PSCs (264, 268, 270, 278, 279, 280, 282, 289, 292 and 499),
- A Moderate / Low risk ranking for adjacent land users due to the potential for inhalation of gases and vapours from PSC 268 (potentially infilled chalk pit within the DoL).

Thus, impacts from Section E PSCs 264, 268, 269, 270, 275, 276, 278, 279, 280, 282, 289, 290, 292 and 499 cannot be fully discounted without further assessment or mitigation of the above potential contaminant linkages.

Low or Very Low risk to on-site existing and future property (buildings and buried services), surface water, and ecological receptors were identified from all investigated PSCs, and these potential contaminant linkages do not require further assessment.

The revised risk assessment for PSC 476 identified all potential contaminant linkages as Low risk, therefore this PSC does not require further assessment.

10 Recommendations

10.1 Geotechnical

Further ground investigation is recommended

It is recommended that further GI works are completed to obtain ground conditions and geotechnical information as detailed below:

- Additional GI along the route is performed to fully understand and characterise the soil required to be excavated / removed / reused at areas of different geology, beneath roads and rivers, linear route locations.
- For design sulphate class aggressive chemical environment for concrete testing to be undertaken to BRE standards within Made Ground at the site.

Selection of construction locations

It is advisable to construct within competent chalk bedrock where anomalies are likely not to be present. If the BPT-E / IPS-E is sited in areas of low conductivity and high resistivity where dissolution features are air filled, it is also advisable to surround the side walls and foundations with imported gravel backfill to prevent settlement and maintain stability during and after construction.

Ground preparation

It is recommended that a processing plant should be used on site to screen out and remove the particles exceeding 40 mm within fine- and coarse-grained soil across Section E. Only material with embedment class of S4 or less are recommended to be used for as-dug soils surrounding semi-rigid pipes or the proposed 1200 mm ductile iron pipeline across the route.

10.2 Geo-environmental

Further ground investigation is recommended.

In areas of the Proposed Development where there are currently data gaps from the Phase 2 and Phase 3B/3C GI, specifically within the western part of Section E where potentially infilled land PSCs within 50 m of the DoL could not be investigated due to access restrictions.

Conduct additional geo-environmental monitoring during construction.

It is recommended that the contractor will assess PSCs not assessed by the GI and PSCs with a risk rating of Moderate/Low and higher (where additional information is needed) as part of their construction phase works to understand and comply with contaminated land, health and safety, waste classification and any other relevant guidance. This should include installation of groundwater/gas monitoring wells at/near PSCs with the potential to generate ground gas (e.g., historical landfills or areas of potentially infilled land) along the proposed route in Section E.

The Made Ground within PSC 268 should be investigated for the presence of pathogens due to reported historic use of the former chalk pit to bury cattle infected with foot and mouth disease.

Watching briefs are recommended

Watching briefs should be in place during construction. Groundworkers should remain vigilant throughout construction and should visual and/or olfactory indicators of contamination (including asbestos) be encountered, works should cease in that area and advice be sought from a suitably qualified geo-environmental professional.

Stockpile management

Stockpile material must be well managed and kept on an area of hardstanding located down gradient of surface water drainage that may potentially discharge to a watercourse. It is recommended that any stockpiled material is covered to prevent rainfall infiltration, run off, and leachate and dust generation. Stockpiles should be secured when not in use to prevent third party access.

Conduct additional monitoring during construction

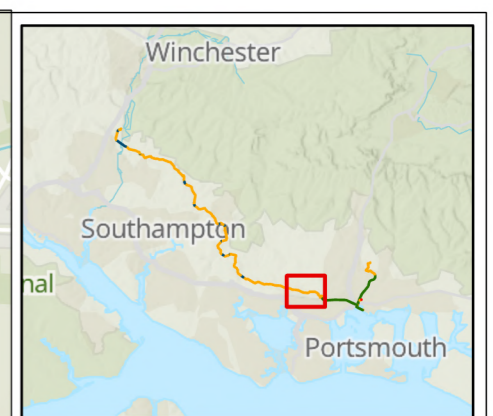
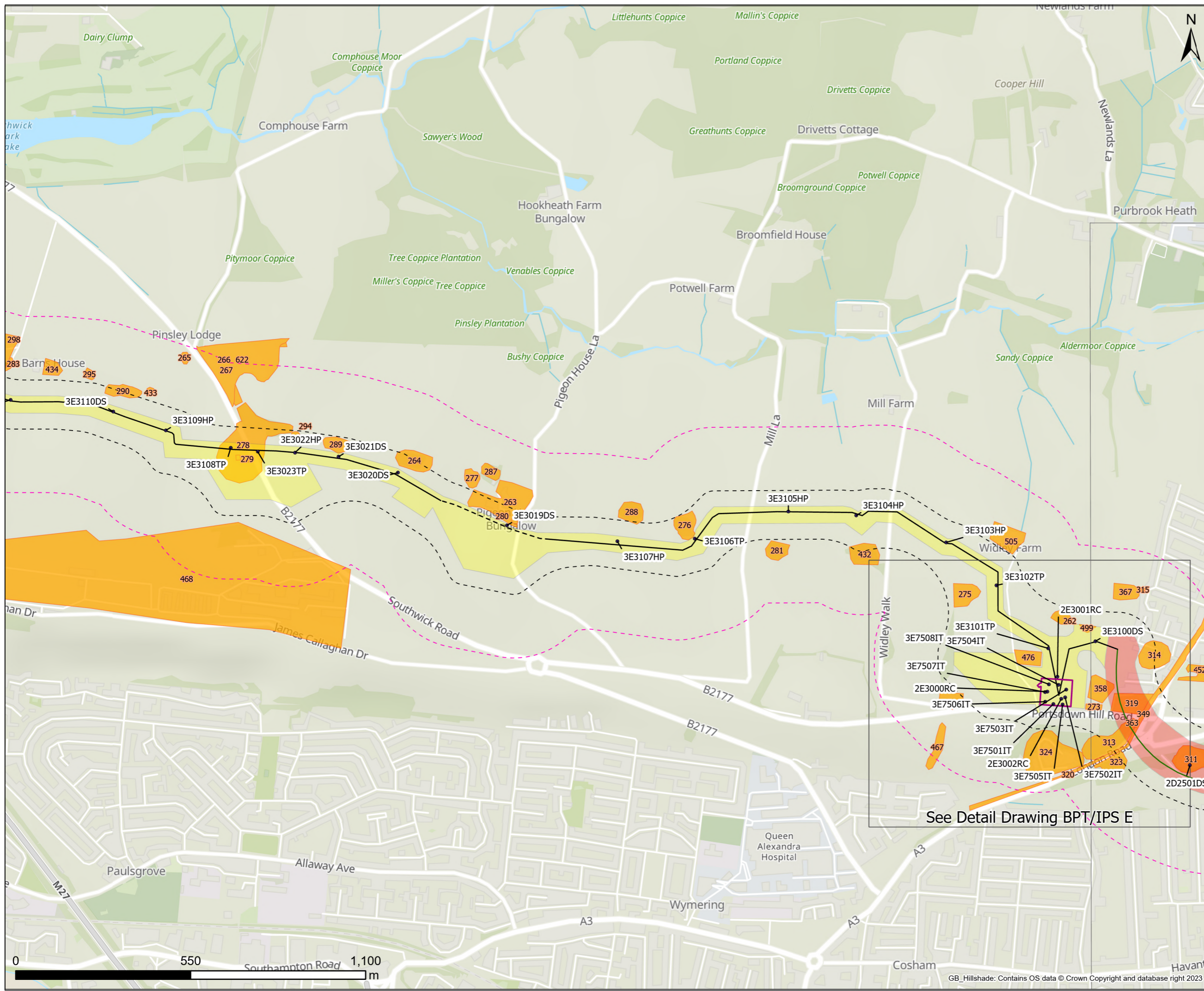
Recommendations for ground gas and groundwater monitoring / testing during the construction phase are to be provided within the Construction Phase Environmental Management Plan.

References

- BGS. (1998). Fareham. Series England and Wales Sheet 316, Solid and Drift Geology. 1:50,000. Keyworth, Nottingham: British Geological Survey.
- BRE. (2005). Concrete in aggressive ground BRE Construction Division Special Digest 1 : 2005. BRE.
- BSI. (2007). Eurocode 7 - Geotechnical Design Part 2: Ground Investigation and testing BS EN 1997-2: 2007. BSI.
- BSI. (2015a). BS8485:2015+A1:2019: Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings. British Standards Institute.
- BSI. (2015b). BS8002:2015 Code of practice for earth retaining structures. London: Figure 2, BSI.
- BSI. (2019). BS6164:2019 - Health and Safety in Tunnelling in the Construction Industry - Code of Practice. London: British Standards Institute. Retrieved from BS 6164:2019 Health and safety in tunnelling in the construction industry. Code of practice: <https://knowledge.bsigroup.com/products/health-and-safety-in-tunnelling-in-the-construction-industry-code-of-practice/tracked-changes>
- BSI. (2020). BS9295: 2020 Guide to the structural design of buried pipes. London: BSI.
- CIRIA. (1992). CIRIA REPORT 97 Trenching Report (Updated 1992). CIRIA.
- CIRIA C552. (2001). Contaminated land risk assessment. A guide to good practice (C552).
- Defra. (2014). SP1010 Defra. (2014). Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination. Final Project Report (Version2). Contaminated Land: Applications in Real Environments. .
- Edmonds. (2001). Predicting natural cavities in chalk. Engineering Geology Special Publications, Chapter 18, 29-38.
- Environment Agency. (2021). Waste Classification Technical Guidance . Retrieved from GOV.UK: <https://www.gov.uk/government/publications/waste-classification-technical-guidance>
- Environment Agency. (2023, July 08). Guidance - Land contamination risk (LCRM). Retrieved from [www.gov.uk](https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm): <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>
- Eyre, D., & Lewis, D.A. (1987). TRL Contractor Report 51: Soil corrosivity assessment. Crowthorne. Transport Research Laboratory.
- Google Earth. (2023). Google Earth.
- Groundsure. (2024). Groundsure Enviro+Geo Insight - WFL Hants Revised Apr24 Various references GSIP - 1A to 15A . Brighton: Groundsure.
- HazWasteOnline. (2024a). HazWasteOnline, Report Reference: E243V-ZTL5V-5YHDZ, 29th January 2024.
- HazWasteOnline. (2024b). HazWasteOnline, Report Reference: 5MRHD-K2R0G-SDA2T, 1st October 2024.
- HSE. (2020). EH40/2005 Workplace Exposure Limits. London: HSE.
- Look. (2007). Handbook of Geotechnical Investigation and Design Tables. Taylor and Francis.
- Lord et al. (2002). C574 Engineering in Chalk. CIRIA.
- Nathanail et al. (2015). The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press.
- NLS. (2023). National Library of Scotland. Retrieved from <https://maps.nls.uk/geo/explore>
- Society of Brownfield Risk Assessment (SoBRA). (2020). Development of Acute Generic Risk Assessment - Criteria for Assessing to Human Health from Contaminants in Soil (v.2). SoBRA.
- SOCOTEC. (2023a). Ground Investigation Report (Factual Account of Fieldwork Monitoring and Laboratory Testing), Issue 02 ref: G2034-22/P2, November 2023. Maidstone: SOCOTEC.
- SOCOTEC. (2023b). Water for Life Phase 2 EM and ERT Factual Report on Geophysical Survey Report No. L3097-23. Socotec. Socotec.
- SOCOTEC. (2024). WFL Hampshire Water Transfer and Water Recycling Project (Phase 3B) Report G2034-22/P3B and (Phase 3B and Phase 3C) Ground Investigation Report (Factual Account of Fieldwork, Monitoring and Laboratory Testing). Final Report. Report No. G4011-24/P3B_3C. SOCOTEC.
- Southern Water. (2024). Hampshire Water Transfer and Water Recycling Project Technical Document Terminology Guide 710166 - SOUTHERN WATER. Southern Water January 2024 Version 8.
- SSP. (2022). Ground Investigation Specification and Bill of Quantities Water Transfer from Havant Water Recycling Plant to Havant Reservoir, Water Transfer from Havant Thicket Reservoir to Otterbourne Water Supply Works Tunnel Locations June 2022. Falmer: SSP.
- SSP. (2022b). Methodology for Identification of Ground Investigation 710166-SWS-XX-XX-MS-GE-00001. SSP.
- SSP. (2023b). Ground Investigation Specification and Bill of Quantities for Ground Investigation. Hampshire Water Transfer and Water Recycling Project. Phase 3B Critical Crossings, Potential Sources of Contamination (PSCs), Non-pipeline Infrastructure and Linear Route.

- SSP. (2023c). Ground Investigation Specification and Bill of Quantities for Ground Investigation. Hampshire Water Transfer and Water Recycling Project. Phase 3C Critical Crossings, Potential Sources of Contamination (PSCs), Non-pipeline Infrastructure and Linear Route.
- SSP. (2024). Hampshire Water Transfer and Water Recycling Project Geotechnical and Geo-Environmental Desk Study Version 4 710166-SWS-XX-XX-RP-GE-00004. SSP.
- Tomlinson. (2001). Foundation Design and Construction 7th Edition. Pearson Educational Ltd.
- Zetica. (2024). UXO Desk Study & Risk Assessment. Document Ref: P14032-24-R10. E Site.

Figures



Legend

- Ground Investigations

Name

- BPT/IPS E
- Draft Order Limits 50m buffer
- Draft Order Limits 250m buffer

GI Scoping Route

- Open cut
- - - Open cut - Subject to Change
- Tunnel

Draft Order Limits Sections

- D
- E
- Potential Sources of Contamination

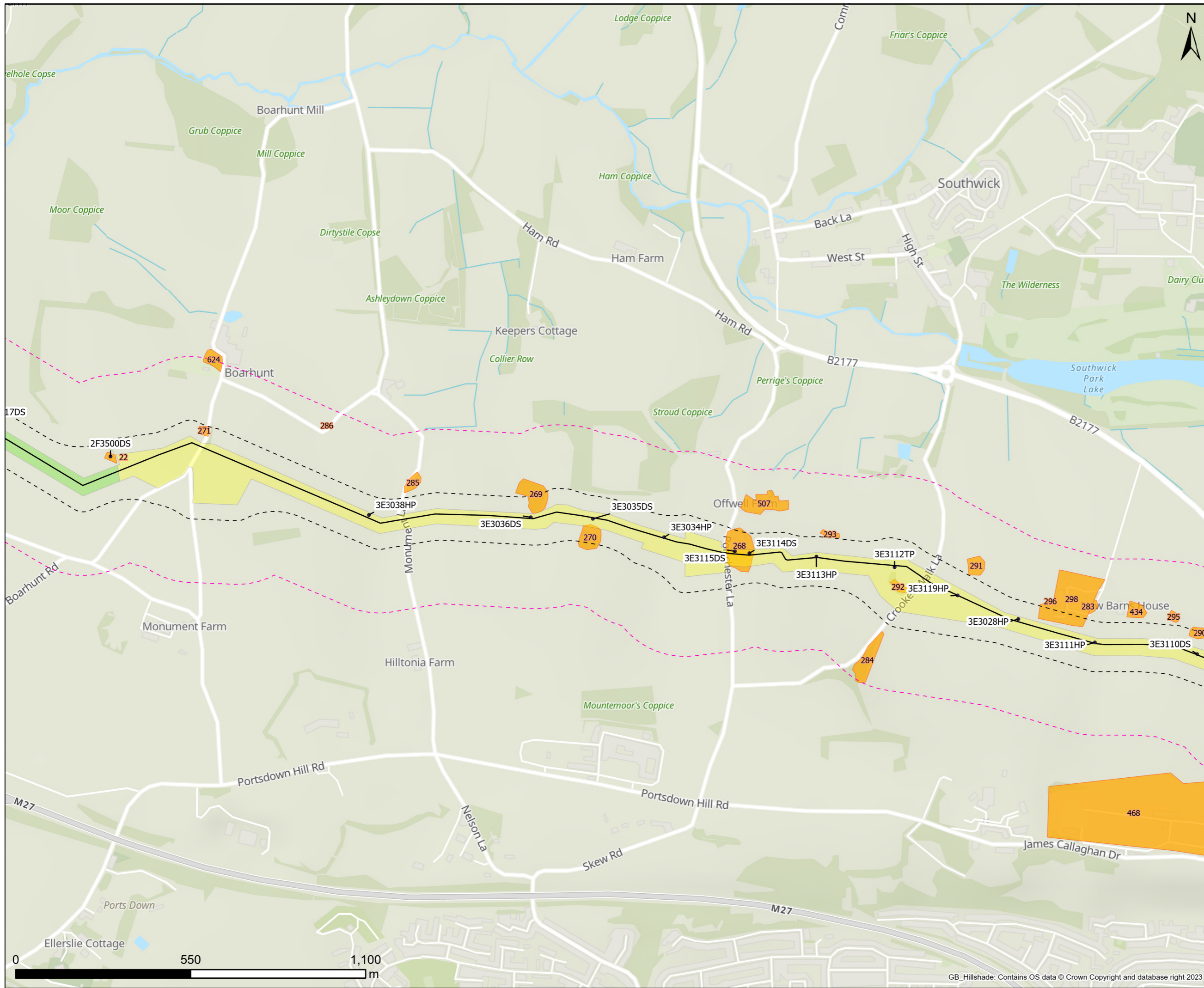
Contains Southern Water preliminary data - All site locations and routes shown are preliminary only and subject to further site selection assessment and stakeholder consultation.



Southern Water
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 Lewes Road
 Falmer, Brighton
 BN1 9PY

See Detail Drawing BPT/IPS E

Project Title			
Water For Life Hampshire			
Drawing Title			
Section E (East)			
Phase 2 3B/C Ground Investigation Locations with PSCs			
Scale	Date Drawn	Page	Sheet Size
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Originator	Checker	Reviewer	Approver
SB	GS	AC	JH
Project No.			Revision
710166-SWS-XX-XX-SK-GE-00001			A



Legend

- Ground Investigations
- - - Draft Order Limits 50m buffer
- - - Draft Order Limits 250m buffer

GI Scoping Route

- Open cut

Draft Order Limits Sections

- E
- F
- Potential Sources of Contamination

Contains Southern Water preliminary data - All site locations and routes shown are preliminary only and subject to further site selection assessment and stakeholder consultation.



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Project Title
Water For Life Hampshire

Drawing Title
 Section E (West)
 Phase 2 3B/C Ground Investigation Locations with PSCs

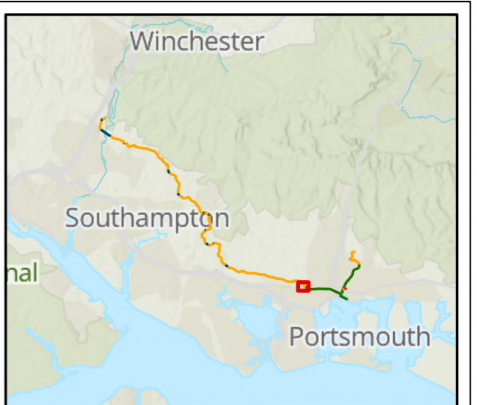
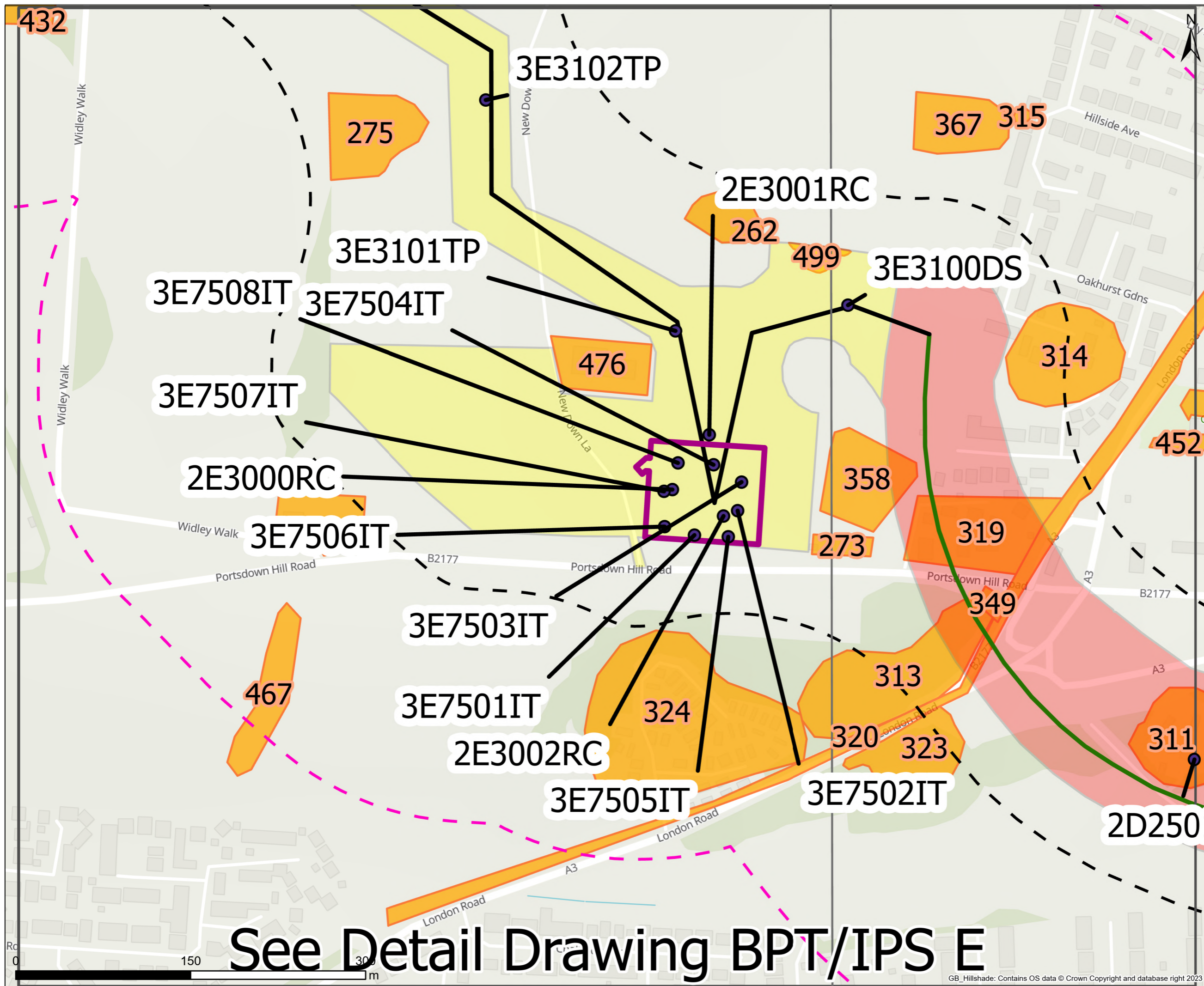
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Project No.
 710166-SWS-XX-XX-SK-GE-00001

Revision
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- Legend**
- Ground Investigations
 - Name**
 - BPT/IPS E
 - Draft Order Limits 50m buffer
 - Draft Order Limits 250m buffer
 - GI Scoping Route**
 - Open cut
 - Tunnel
 - Draft Order Limits Sections**
 - D
 - E
 - Potential Sources of Contamination

Contains Southern Water preliminary data - All site locations and routes shown are preliminary only and subject to further site selection assessment and stakeholder consultation.



Southern Water
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Project Title			
Water For Life Hampshire			
Drawing Title			
Section BPT/IPS E (Detail)			
Phase 2 3B/C Ground Investigation Locations with PSCs			
Scale	Date Drawn	Page	Sheet Size
1:3,000	04/03/2025	1.1	A3
Originator	Checker	Reviewer	Approver
SB	GS	AC	JH
Project No.			Revision
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See Detail Drawing BPT/IPS E

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PSC No.	Name	Source	Current	Dates	Description	Category	Section
1	Works - Crockerhill Brickworks	Groundsure, National Library of Scotland, ArcGIS Earth, Google Earth	Y	1868 - Present	1868 to 1939 brickfield including infilled ponds. 1939 to 1992 (last available map) Saw mills east of Forest Lane. 1999 to Present - 'Pinks' Industrial park / Welbourne Business Park	PSC & Infilled Land	F
2	Pit - Clay	NLS	N	1937-61 - 1949-70		Infilled Land	F
4	Farm - Albany Farm	National Library of Scotland, Historic Map 1856. Fareham and Gosport Council	Y	1856-1914 - Present	Area now a business centre, houses, a care home and offices. Local authority note timber furniture manufacture.	PSC	F
5	Landfill - Albany Farm Historic Landfill	Environment Agency, National Library of Scotland, Historic Map 1856	N	1856-1913 - 1949-89	Old chalk pit 1888-1913 (NLS), 1949-70 (NLS) no longer labelled, markings remain. Landfill licence granted 1977 and shown in lower area until 1989.	Infilled Land	F
6	Landfill - Albany Farm Historic Landfill	Environment Agency, National Library of Scotland, Historic Map 1856	N	1977 - 1982	1892-1914 (NLS) - Old Chalk Pit. Inert backfill.	Infilled Land	F
7	Pit - Unspecified	National Library of Scotland, Historic Map 1856	N	1856 - 1965		Infilled Land	F
8	Pit - Sand	National Library of Scotland, Historic Map 1856	N	1856-1913 - 1937-61		Infilled Land	F
9	Pit - Chalk	National Library of Scotland, Fareham BC EHO, Historic Map 1856	Y	1856-1913 - 1949-70	1892-1913 (NLS) excavation markings still present 1949-92 (NLS). Chalk pit followed by farm use.	PSC & Infilled Land	F
10	Pit - Chalk	National Library of Scotland, Historic Map 1856	N	1856-1913 - 1949-78	Former pit and pond.	Infilled Land	F
11	Landfill - Heytesbury Farm Landfill	Environment Agency, National Library of Scotland / Fareham BC EHO	N	1856-1913 - 1949-70	Former clay pit. Visible on Historical 1956 Map, 1888-1913 (NLS), 1949-70 (NLS) no longer labelled. First input 1980. Unknown last input. Local authority note - Waste treatment: landfill construction/demolition/builders waste.	Infilled Land	F
12	Pit - Various	Fareham Council EHO	N	Unknown	Chalk, gravel, clay pit	Infilled Land	F
14	Pit - Various	Fareham BC EHO	N	1856 - 1873	Chalk, gravel, clay pit	Infilled Land	F
15	Infilled Land - Disturbed Ground	Fareham BC EHO	N	Unknown	Unknown landfill/ Stockpiled Soil/ Raised land/ Reclaimed land/ Fly-tipping/Burnt waste - no evidence seen on historical maps.	PSC & Infilled Land	F
16	Embankment	Historic Map 1932	Y	1932 - 1987	Road embankment, road layout has changed in area.	PSC	F
17	Embankment	Historic Map 1958	N	1958 - 1992	Road embankment, layout of road has changed in area, road no longer extends up this far, although area still seems to be raised.	PSC	F
18	Waste Facility - Recycling and waste centre	Historic Map 1856, Google Earth	Y	1856 - Present	Charity Farm shown throughout Historical Maps until 1993. Current map shows area as a waste and recycling centre.	PSC	F
19	Infilled Land - Pond	Historic Map 1856	N	1856 - 1895		Infilled Land	F
20	Infilled Land - Drain	Historic Map 1856	N	1856 - 1910		Infilled Land	F
21	Farm - Whitehell Farm	Historic Maps 1856 - 1992 Google Earth 2024	Y	1856 - Present		PSC	F
22	Pit - Sand	Historic Map 1856	N	1856 - 1898		Infilled Land	F
23	Pit - Chalk	Historic Map 1873	N	1856 - 1985		Infilled Land	F
24	Pit - Chalk	Historic Map 1895	N	1895 - 1898		Infilled Land	F
25	Pit - Chalk	Historic Map 1897	N	1856 - 1985	Infilled Land, western part potentially crosses the pipeline route.	Infilled Land	F
26	Infilled Land - Channel	Historic Map 1868	N	1856 - 1910		Infilled Land	F
27	Infilled Land - Channel	Historic Map 1868	N	1856 - 1957		Infilled Land	F
28	Infilled Land - Channel	Historic Map 1868	N	1856 - 1957		Infilled Land	F
29	Electricity Sub Station (Small)	ArcGIS Earth / Google Earth	Y	1987 - Present		PSC	G
30	Infilled Land - Pond	National Library of Scotland	N	1868 - 1894		Infilled Land	G
31	Infilled Land - Pond	National Library of Scotland	N	1868 - 1938	Infilled by 1940.	Infilled Land	G
32	Farm - Cold Harbour Farm	National Library of Scotland, Google Earth	Y	1888-1913 - Present		PSC	G
33	Garage - Drokes Farm Motor Company	Google Earth / ArcGIS Earth	Y	2017 - Present	2017 to Present (2023). Servicing, repairs and diagnostic.	PSC	G
34	Nursery	National Library of Scotland	Y	1949-70 - Present		PSC	G
35	Infilled Land - Pond	NLS	N	1888-1913 - 1999		Infilled Land	G
36	Pit - Gravel	National Library of Scotland	N	1892-1914 - 1937-61	Excavation marks visible 1937-61, no longer labelled, pipeline route no longer being passed through PSC.	Infilled Land	G
37	Pit - Gravel	National Library of Scotland	N	1868 - 1913		Infilled Land	G
38	Farm - Little Tapnag Farm	ArcGIS Earth / Google Earth	Y	2021 - Present	2021 Google Earth to Present.	PSC	G
39	Railway	National Library of Scotland	N	1909 - 1968	Appears to be dismantled by 1980. Area now a path.	PSC	G
40	Infilled Land - Pond	National Library of Scotland	N	1868-1897 - 1949-70		Infilled Land	G
41	Infilled Land - Pond	National Library of Scotland	N	1888 - 1994		Infilled Land	G
42	Hospital - Ravenswood	National Library of Scotland, Google Earth, Historic Map 1940	Y	1940-70 - Present		PSC	G
43	Embankment	Historic Map 1939	Y	1939 - Present		PSC	G
44	Embankment	Historic Map 1987	Y	1939 - Present		PSC	E
45	Pit - Gravel	Historic Map 1968	N	Pre-1868	Labelled as 'Gravel Pit Copse'; Shape seen in 1868 map and first labelled in 1888, no actual gravel pit confirmed.	Infilled Land	H
46	Pit - Various	Historic Map 1994, BGS Historical Mineral Planning Areas	N	1973 - 1994	Park Place - Sand and gravel surface mineral working (BGS) Licence granted 1972. Eastern corner pipeline passes through.	Infilled Land	G
49	Pit - Gravel	Historic Map 1895	N	1895 - 1938		Infilled Land	G
50	Infilled Land - Pond	Historic Map 1965	N	1965 - 1994		Infilled Land	G
51	Pit - Gravel	Historic Map 1895	N	1895 - 1938		Infilled Land	G
52	Pit - Gravel	Historic Map 1908	Y	1908 - Present	Pipeline no longer passes near PSC.	Infilled Land	G
53	Infilled Land - Pond	Historic Map 1868	N	1868 - 1994		Infilled Land	F
54	Infilled Land - Drain	Historic Map 1968	N	1868 - 1979	Unclear when the drain was first created, first labelled as a drain in map 1979, however shape can be seen on 1868 map.	Infilled Land	G
55	Infilled Land - Drain	Historic Map 1968	N	1868 - 1987	Unclear when the drain was first created, first labelled as a drain in map 1979, however shape can be seen on 1868 map.	Infilled Land	G
57	Infilled Land - Drain	Historic Map 1968	N	1868-1980	Unclear when the drain was first created, first labelled as a drain in map 1979, however shape can be seen on 1868 map.	Infilled Land	G
58	Infilled Land - Drain	Historic Map 1968	N	1868-1980	Unclear when the drain was first created, first labelled as a drain in map 1979, however shape can be seen on 1868 map.	Infilled Land	G
59	Pit - Sand	Historic Map 1868	N	1868 - 1938	Hospital built on top.	Infilled Land	G
60	Pit - Gravel	Historic Map 1895	N	1895 - 1938	Hospital built on top.	Infilled Land	G
62	Infilled Land - Drain	Historic Map 1868	N	1868 - 1994	Shown as a large channel in 1868map, no water shown in that area on ArcGIS Map, however channel outline is still visible on 1994 Map.	Infilled Land	G
64	Infilled Land - Drain	Historic Map 1868	N	1868 - 1895		Infilled Land	G
65	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
66	Infilled Land - Drain	Historic Map 1868	N	1868 - 1938		Infilled Land	G
67	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
68	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
69	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
70	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
71	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
72	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
73	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
74	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
75	Infilled Land - Drain	Historic Map 1868	N	1868	Only visible in 1868 map.	Infilled Land	G
76	Farm	Google Earth, Groundsure Historical Tanks layer	Y	Pre-1999 - Present	Tanks identified by Groundsure 1986-87.	PSC	H
77	Agricultural - Nursery / Farm	Google Earth	Y	1987 - Present	Possible greenhouses adjacent to corridor.	PSC	H
78	Infilled Land - Disturbed Ground	Google Earth	Y	2005 - Present	Ground shown as disturbed with soil and waste heaps. Land also used a farm yard.	PSC & Infilled Land	H
79	Farm	Google Earth	Y	1999 - Present	Small scale activities, no farm name.	PSC	H
80	Tank	Historic Map 1989	N	1986 - 2007		PSC	H

PSC No.	Name	Source	Current	Dates	Description	Category	Section
81	Tank	Historic Map 1989	N	1986 - 1994		PSC	H
82	Pit - Sand	Historic Map 1939	N	1939 - 1957		Infilled Land	H
83	Pit - Sand	Historic Map 1939	N	1939 - 1968		Infilled Land	H
84	Infilled Land - Pond	Historic Map 1868	N	1868 - 1909	No labels on map, however older maps potentially show a pit or an infilled pond.	PSC	H
85	Farm - Westland Farm	Historic Map 1994	Y	1994 - Present		PSC	H
86	Farm	Google Earth	Y	2014 - Present	Farm building.	PSC	H
87	Infilled Land - Swimming pool	Historic Map 1965	N	1965 - 1987		Infilled Land	H
88	Garage	Historic Map 1965, Winchester County Council, Groundsure	Y	1965 - Present		PSC	H
89	Pit - Sand	Historic Map 1965	N	1965 - 1968		Infilled Land	H
90	Landfill - Shirrel Heath Sand Pit	Historic Map 1987, Environment Agency	N	1976 - 1987	Surrounding Old sand pit site. Licence issue 11/1976. Labelled as disused workings on 1987 Map. Input - inert, commercial waste.	Infilled Land	H
91	Infilled Land - Pond	Historic Map 1965	N	1965 - 1994	Partially infilled, current site has a river running through the middle. Date of infill unknown, visible on most recent historical map of area (1993) but not on current Google Earth imagery.	Infilled Land	H
92	Garage - Winkworths Garage	Historic Map 1986	Y	1986 - Present	Vehicle repair, maintenance and MOT services.	PSC	H
94	Farm - Woodman's Farm	National Library of Scotland	N	1888 - 1913		PSC	J
95	Pit - Sand	National Library of Scotland	N	1895 - 1896		Infilled Land	J
96	Industrial Estate - Woodmans Farm	Google Earth	Y	1993 - Present	On the former footprint of Woodmans Farm. Units include several vehicle maintenance garages, metal finisher and welding activities and air condition repair. Tank shown in north of site on 1993 historical map.	PSC	J
97	Landfill - Ash House Farm Landfill	National Library of Scotland	N	1868 - 1991		Infilled Land	J
98	Pit - Sand	National Library of Scotland, Historical Map 1968	N	1965 - 1968		Infilled Land	J
99	Farm - Unknown	Google Earth	Y	1999 - Present	Farm or possible horse stable.	PSC	J
100	Farm - Five Oaks Farm	National Library of Scotland	Y	Present		PSC	J
101	Farm - Sandy Hill Farm	Historical Map 1868	N	1868 - 1897	From Sandy Hill Farm to Sandy Hill House in next map, 1909.	PSC	J
102	Pit - Sand	Historic Map 1869	N	1869 - 1897		Infilled Land	J
103	Pit - Sand	Historic Map 1895	N	1895 - 1957	LIDAR shows ground level lower than surrounding area. Potentially not infilled.	Infilled Land	H
104	Pit - Sand	Groundsure Historical Maps. BGS mineral planning areas and worked ground layer	N	1965 - 1987	Phillimore Sand pit 1965. 1987 map labels whole area as disused workings.	Infilled Land	J
106	Pit - Gravel	Historic Map 1869	N	1868 - 1869	Only visible on two maps. Not shown on 1895 map.	Infilled Land	K
107	Infilled Land - Marshland	Historical Map 1964	N	1964 - 1993	Not visible on current aerial photography. May still be present.	Infilled Land	K
108	Infilled Land - Marshland	Historical Map 1964	N	1964 - 1993,	Potentially infilled by 1999.	Infilled Land	K
109	Infilled Land - Drain	Historical Map 1964	N	1964 - 1993		Infilled Land	K
114	Wastewater Treatment Works - Pumping Station	Historic Map 1994	Y	1985 - Present		PSC	J
115	Infilled Land - Drain	Historic Map 1965	N	1965	Exact location and size unclear. Label 'drain' present in 1965 map only.	Infilled Land	J
116	Embankment - Park Lug	Historic Map 1964, Hants.gov.uk	Y	1964 - Present	Historical map appear to show a tree lined artificially raised land to form an embankment. Embankment identified as Park Lug on historical maps. Hants.gov.uk describes Park Lug as a boundary for a medieval deer park.	PSC	J
117	Farm - Brooklands Farm	Historic Map 1868	Y	1868 - Present	Lodge Farm/Brooklands farm currently residential housing	PSC	K
118	Infilled Land - Marshland	National Library of Scotland	N	1840-1880		Infilled Land	K
119	Infilled Land - Channel	Historic Map 1869	N	1868 - 1957		Infilled Land	K
121	Infilled Land - Channel	Historic Map 1869	N	1868 - 1985		Infilled Land	K
122	Infilled Land - Channel	Historic Map 1869	N	1868 - 1896		Infilled Land	K
123	Infilled Land - Channel	Historic Map 1869	N	1868 - 1957	Partially infilled at different times, channel is last visible on 1957 map.	Infilled Land	K
125	Railway	National Library of Scotland	N	1868 - 1964	Marked as disused from 1964.	PSC	K
126	Pit - Sand	Historic Map 1957	N	1957	Only visible on 1957 Map. Not visible on 1910 or 1965 maps.	Infilled Land	J
127	Infilled Land - Pond	Historic Map 1868	N	1868 - 1909		Infilled Land	E
128	Infilled Land - Pond	Historic Map 1909	N	1896 - 1957		Infilled Land	J
129	Farm - Dalecote Farm	Historic Map 1965	Y	1965 - Present		PSC	J
130	Farm - Treefield Farm	Historic Map 1868	Y	1957 - Present		PSC	J
131	Agricultural - Orchard	ArcGIS Earth	Y	1868 - Present		PSC	K
132	Infilled Land - Pond	National Library of Scotland	N	1868 - 1957	Infilled by 1964. Land drain still present.	Infilled Land	K
133	Infilled land - Artificial Deposit	British Geological Survey	N	Unknown	BGS Artificial Ground	Infilled Land	K
134	Infilled Land - Pond	National Library of Scotland	N	1888 - 1914		Infilled Land	K
135	Farm - Winterhill Farm	National Library of Scotland, ArcGIS Earth	N	1888 - 1913		PSC	K
136	Garage	Google Earth	Y	Present		PSC	K
137	Works - Brick works	NLS	N	1888-1913 - 1949-70	1937-61 Works.	PSC & Infilled Land	K
138	Farm - Trullingham / Laurel Farm	NLS / Google Earth	Y	1868 - Present	Shown as Trullingham on maps from 1888-1913 to 1949-70. Laurel Farm not shown until 1949-70.	PSC	K
139	Infilled Land - Landscaped bank	National Library of Scotland	N	1896 - 1993		Infilled Land	K
140	Works - Brick works	Groundsure Winchester City Council	N	1868 - 1888	Recorded as a Brick Field with Kilns on the 1885 map. No longer recorded as a Brick Field on the 1896 map and forms the rear garden of a residential property.	Infilled Land	K
143	Farm - Merry Orchard Farm	Historic Map 1964	Y	1964 - Present	Cherry Orchard Farm/Merry, possibly part of Merrytree Farm/Merry Orchard Farm.	PSC	K
146	Infilled Land - Pond	Historic Map 1993	N	1993 - 2000	Only visible on 1993 map.	Infilled Land	K
148	Infilled Land - Pond	Historic Map 1868	N	1868 - 1964		Infilled Land	K
149	Infilled Land - Marshland	Historic Map 1964	Y	1964 - Present		Infilled Land	K
150	Farm - Tangier Farm	Historic Map 1868	Y	1868 - Present	Tangier Farm.	PSC	K
151	Infilled Land - Pond	National Library of Scotland	N	1888-1913 - 1947-1970		Infilled Land	L
152	Works - Brick works	National Library of Scotland, Winchester CC EHO	N	1892-1914	The 1940 plan records the site as disused with the south eastern area of the site divided up into fields. Post 1940 site is recorded as open ground with ponds. Site developed into housing post 1963 into housing.	PSC & Infilled Land	L
153	Landfill - Sand pit	National Library of Scotland, Winchester CC EHO	N	1892-1914 - 1945-1965		Infilled Land	L
154	Embankment	National Library of Scotland	Y	1888 - Present		PSC	L
155	Infilled Land - Made Ground (BGS)	National Library of Scotland, BGS	Y	1868 - Present		PSC	L
156	Garage	Google Maps	Y	Present	Vehicle maintenance.	PSC	L
157	Industrial Estate - Simba Business Park	Google Maps	Y	Present	Business park (fuel, workshops, general trade).	PSC	L
158	Garage	Google Earth	Y	Present	Fuel store / vehicle repair.	PSC	L
159	Waste Facility - Recycling / Scrap Yard	ArcGIS Earth	Y	Present		PSC	L
160	Farm - Rockery Farm	Google Earth	Y	Present		PSC	L
161	Worked Ground	Google Earth	N	2019 - 2020		PSC	L
162	Farm - Lowhill Farm	ArcGIS Earth	Y	1868 - Present		PSC	L
163	Farm - Ashbourne Stables	Google Earth	Y	1993 - Present		PSC	L
164	Fuel Filling Station	Historical Map 1963, Winchester City Council	N	1963 - 2010	Poor map coverage post 1963. The 1983 map shows the garage and a Coach House developed on the site, 1989 only labels the coach house.	PSC	L
165	Pit - Gravel	Historic Map 1868	N	1868 - 1957		Infilled Land	L
166	Pit - Gravel	Historic Map 1996	N	1888 - 1957	Replaced with houses.	Infilled Land	L

PSC No.	Name	Source	Current	Dates	Description	Category	Section
167	Works - Old Brick Yard	Historic Map 1868, Groundsure Historical Land Use layer	N	1868 - 1968	According to 2024 Groundsure Reports, unspecified pits and ground working are also associated with this PSC.	PSC & Infilled Land	L
168	Works - Brick works	Historic Map 1868	N	1868 - 1869	Brick Works, Clay Pits, Kilns.	PSC & Infilled Land	L
170	Infilled Land - Swimming Pool	Historic Map 1937	N	1937 - 1994		PSC & Infilled Land	L
171	Infilled Land - Pond	Historic Map 1989, ArcGIS Map	Y	1989 - Present	Large areas have been infilled and a smaller pond now exists here.	Infilled Land	L
172	Infilled Land - Pond	Historic Map 1989, ArcGIS Map	Y	1989 - Present	Large areas have been infilled and a smaller pond now exists here.	Infilled Land	L
173	Infilled Land - Pond	Historic Map 1989	N	1989 - 1993		Infilled Land	L
174	Infilled Land - Drain	Historic Map 1963	N	1963 - 1995		Infilled Land	L
175	Infilled Land - Drain	Historic Map 1963, ArcGIS Map	N	1868 - 1993	Only labelled as a drain in maps 1963 & 1968; maps as far back as 1868 show shape of the watercourse without the label, modern map shows a smaller watercourse crossing the western section. Eastern section potentially re-aligned to electricity pylon route	Infilled Land	L
177	Works - Unknown	Historic Map 1963	N	1963 - 1968	Labelled as 'works' in 1963 map, structures still visible in 1968 map, but not before 1963 or 1968.	PSC	L
178	Works - Unknown	Historic Map 1963	N	1963 - 1968	Labelled as 'works' in 1963 map, structures visible in 1968 map, but not before 1963 or after 1968 maps.	PSC	L
179	Pit - Gravel	Historic Map 1939	N	1939	Only visible in 1939 map.	Infilled Land	L
180	Pit - Gravel	Historic Map 1939	N	1937	Only visible in 1937 map.	Infilled Land	L
181	Pit - Gravel	Historic Map 1909	N	1909 - 1910		Infilled Land	L
182	Farm - Tee's Farm	Historic Map 1868	N	1868 - 1939		PSC	L
183	Infilled Land - Pond	Historic Map 1868	N	1868 - 1984		Infilled Land	L
184	Infilled Land - Pond	Historic Map 1868	N	1868 - 1896.		Infilled Land	L
185	Infilled Land - Pond	Historic Map 1868	N	1868 - 1963		Infilled Land	L
186	Farm - Upper Bambridge Farm	Historic Map 1968	Y	1868 - Present		PSC	L
187	Farm - Hill's Farm	Historic Map 1939	N	1868 - 1984		PSC	L
188	Infilled Land - Pond	Historic Map 1957	N	1957	Only visible in 1957 map.	Infilled Land	L
189	Infilled Land - Pond	Historic Map 1963	N	1963 - 1968		Infilled Land	L
190	Infilled Land - Pond	Historic Map 1963	N	1963	Only visible in 1963 map.	Infilled Land	L
191	Infilled Land - Pond	Historic Map 1868	N	1868 - 1937		Infilled Land	L
192	Tank	Historic Map 1963	N	1963	Only visible in 1963 map.	PSC	L
193	Farm - Leylands Farm	Historic Map 1968	N	1868 - 1968		PSC	L
196	Infilled Land - Pond	Historic Map 1868	N	1868 - 1939		Infilled Land	L
197	Infilled Land - Pond	Historic Map 1868	N	1868 - 1964		Infilled Land	L
198	Infilled Land - Pond	Historic Map 1868	N	1868 - 1964		Infilled Land	L
199	Infilled Land - Pond	Historic Map 1994	N	1992 - 2000	Date of infill unknown. Pond shown on 1994 map, no longer shown on modern map.	Infilled Land	L
201	Works - Depot	ArcGIS Earth	Y	Present	Metal warehouse frame and outdoor storage area with equipment.	PSC	E
202	Infilled Land - Lagoon	National Library of Scotland	N	1963 - Present		Infilled Land	M
204	Railway	Google Maps	Y	1868 - Present		PSC	M
206	Infilled Land - Pond	NLS, ArcGIS Map, Historic Map 1963	N	1963 - 1984	Pond size has changed through maps, notably from 1968 map, extended in some areas and infilled in others.	Infilled Land	M
208	Water Works	Historic Map 1888, ArcGIS Earth	Y	1888 - Present	First classed as Water works; then Sewage Works and sewage farms. Site structures include sewerage septic-tanks and filter beds.	PSC	M
209	Landfill - Bugle Farm Landfill	Groundsure Historical Maps, Environment Agency	N	1937 - 1963	Extraction of alluvial sediments (sand, stone, clay, peat, marl and gravel), previously a farm. No information on first last input or waste type from Environment Agency. SSP 2023 site visit did not find evidence of landfilling.	Infilled Land	M
210	Infilled Land - Pond	Historic Map 1963	N	1963	Infilled Pond, turns into drainage area.	Infilled Land	M
214	Landfill - Brambridge Landfill	Historic Map 1957, BGS, Hampshire County Council	N	1957	Former sand and gravel pit, Made Ground (BGS). Local authority records note 'Gas risk - no info, permeability - high'.	Infilled Land	M
215	Infilled Land - Pond	Historic Map 1963	N	1963 - 1999	Pond has changed in size over time.	Infilled Land	M
216	Infilled Land - Drain	Historic Map 1963	N	1963	Only labelled on 1963 map, present day northern section seems to now have a pond.	Infilled Land	M
217	Infilled Land - Pond	Historic Map 1963	N	1963	Watercourses still present. Pond shown until last historic map in 1993.	Infilled Land	M
218	Water Works - Pumping, Treatment, Tanks	Historic Map 1939	Y	1939 - 1963	Disused Pumping Station, Waterworks, Tanks. Site still present on 1993 map. Outline still present on 2022 Google earth, but only labelled on historical map up to 1963.	PSC	E
219	Infilled Land - Drain	Historic Map 1963	N	1963 - 1968		Infilled Land	M
220	Water Works - Filter beds	Historic Map 1937	N	1937 - 1957		PSC	M
221	Infilled Land - Drain	Historic Map 1963	N	1895 - 1980	Feature only labelled as a drain in 1963 map, however structure can be seen as far back as the 1895 map.	Infilled Land	E
222	Infilled Land - Drain	Historic Map 1963	N	1869 - 1980	Feature only labelled as a drain in 1963 Map, however structure can be seen as far back as the 1869 map.	Infilled Land	E
223	Infilled Land - Drain	Historic Map 1963	N	1963	Only visible in 1963 map.	Infilled Land	E
224	Infilled Land - Drain	Historic Map 1963	N	1908 - 1980	Drain extends further SE, however that appears to still be filled with water. Feature only labelled as a drain in 1963 Map, however structure can be seen as far back as the 1908 map	Infilled Land	E
225	Infilled Land - Sluice	Historic Map 1896	N	1869 - 1896		Infilled Land	M
226	Infilled Land - Channel	Historic Map 1896	N	1869 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
227	Infilled Land - Channel	Historic Map 1869	N	1869 - 1957		Infilled Land	E
228	Infilled Land - Channel	Historic Map 1869	N	1869 - 1909		Infilled Land	M
229	Infilled Land - Channel	Historic Map 1869	N	1869 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
230	Infilled Land - Channel	Historic Map 1869	N	1869 - 1957		Infilled Land	E
231	Infilled Land - Channel	Historic Map 1896	N	1869 - 1909		Infilled Land	M
232	Infilled Land - Channel	Historic Map 1896	N	1869 - 1968		Infilled Land	E
233	Infilled Land - Pond	Historic Map 1869	N	1869 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
234	Infilled Land - Channel	Historic Map 1870	N	1870 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	M
235	Infilled Land - Channel	Historic Map 1870	N	1870 - 1957		Infilled Land	M
236	Infilled Land - Channel	Historic Map 1870	N	1869 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
237	Infilled Land - Drain	Historic Map 1963	N	1963 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
238	Infilled Land - Drain	Historic Map 1963	N	1957 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	M
239	Infilled Land - Drain	Historic Map 1993	N	1932 - 1999	Unsure exactly when infilled. Visible on last historical map of the area, not shown on Google Earth 1999 image.	Infilled Land	E
240	Infilled Land - Drain	Historic Map 1958	N	1869 - 1987		Infilled Land	E
241	Infilled Land - Drain	Historic Map 1958	N	1869 - 1987		Infilled Land	E
242	Infilled Land - Drain	Historic Map 1958	N	1958 - 1987		Infilled Land	E
243	Farm - Bugle Farm	Historic Map 1968	Y	1968 - Present		PSC	E
256	Infilled Land - Pond	Historic Map 1993	N	1896-1993		Infilled Land	K
257	Infilled Land - Tank	Historic Map 1994	N	1994	Former tank, now part of a nursery (agricultural).	PSC & Infilled Land	G
258	Farm - Prior's Holds Farms	NLS	Y	1888-1913 - Present		PSC	E
259	Farm	NLS	Y	Pre-1999 - Present		PSC	E
260	Pit - Gravel	National Library of Scotland	N	1888 - 1913		Infilled Land	E
261	Farm - Heath Farm	Google Earth	Y	Present		PSC	E
262	Pit - Unspecified	National Library of Scotland	N	1888 - 1970	Local authority suggest pit present in 1878.	Infilled Land	E

PSC No.	Name	Source	Current	Dates	Description	Category	Section
263	Farm - Pigeonhouse Farm	National Library of Scotland	N	1856-1913 - 1949-70	Currently residential property.	PSC	E
264	Pit - Chalk	National Library of Scotland	N	1856-1913 - 1949-70		Infilled Land	E
265	Infilled Land - Pond	National Library of Scotland	N	1856-1931 - 1949-70		Infilled Land	E
266	Worked Ground	National Library of Scotland	N	1937-61 - 1949-70	1937-61 unspecified buildings.1949-70 (NLS) unspecified heaps. Area identified by local authority as a former anti-aircraft battery during 2nd world war.	PSC	E
267	Pit - Chalk	National Library of Scotland	N	1888-1913 - 1949-70		Infilled Land	E
268	Pit - Chalk	National Library of Scotland	N	1856-1913 - 1937-61		Infilled Land	E
269	Pit - Chalk	National Library of Scotland	N	1908 - 1913	Local authority suggest pit present in 1873.	Infilled Land	E
270	Pit - Chalk	National Library of Scotland	N	1888-1913 - 1949-70		Infilled Land	E
271	Pit - Chalk	National Library of Scotland	N	1888-1913 - 1937-61		Infilled Land	E
273	Water Works - Reservoir	National Library of Scotland	N	1938 - 1951	Reservoir(Portsouth Water Works).	PSC	E
274	Infilled Land - Pond	National Library of Scotland	N	1937-61 - 1949-70		Infilled Land	E
275	Pit - Chalk	Historic Map 1860	N	1856 - 1980		Infilled Land	E
276	Pit - Chalk	Historic Map 1869	N	1856 - 1980		Infilled Land	E
277	Pit - Chalk	Historic Map 1869	N	1856 - 1978		Infilled Land	E
278	Pit - Chalk	Historic Map 1869, Groundsure Historical Industrial Land Uses layer	N	1856 - 1957		Infilled Land	E
279	Works - Kiln	Historic Map 1869	N	1869 - 1957		PSC	E
280	Infilled Land - Pond	Historic Map 1856	N	1856 - 1897		Infilled Land	E
281	Pit - Chalk	Historic Map 1873	N	1873 - 1980		Infilled Land	E
282	Works - Kiln	Historic Map 1856	N	1856 - 1957		PSC	E
283	Pit - Chalk	Historic Map 1856	N	1856 - 1993		Infilled Land	E
284	Pit - Chalk	Historic Map 1856	N	1856 - 1895		Infilled Land	E
285	Pit - Chalk	Historic Map 1856	N	1856 - 1873		Infilled Land	E
286	Infilled Land - Well	Historic Map 1868	N	1868 - 1965		Infilled Land	E
287	Pit - Chalk	Historic Map 1873	N	1873 - 1978		Infilled Land	E
288	Pit - Chalk	Historic Map 1895	N	1895 - 1980		Infilled Land	E
289	Pit - Chalk	Historic Map 1895	N	1895 - 1978		Infilled Land	E
290	Pit - Chalk	Historic Map 1895	N	1895 - 1957		Infilled Land	E
291	Pit - Chalk	Historic Map 1895	N	1895 - 1993		Infilled Land	E
292	Pit - Chalk	Historic Map 1895	N	1895 - 1941		Infilled Land	E
293	Pit - Chalk	Historic Map 1895	N	1895 - 1908		Infilled Land	E
294	Pit - Chalk	Historic Map 1897	N	1897 - 1972		Infilled Land	E
295	Pit - Chalk	Historic Map 1909	N	1909 - 1957		Infilled Land	E
296	Infilled Land - Pond	Historic Map 1909	N	1868 - 1957		Infilled Land	E
297	Military - Fort Widley	Historic Map 1963	Y	1850 - 1972	Various uses. Last military use 1972. See Zetelia Report.P14032-24-R10 Site E. Sold to Portsmouth Council 1972.	Military	E
298	Farm - New Barns Farm	Historic Map 1968	Y	1968 - Present		PSC	E
299	Infilled Land - Pond	National Library of Scotland	N	1860 - 1913		Infilled Land	D
300	Pit - Chalk	National Library of Scotland	N	1888 - 1913		Infilled Land	D
301	Infilled Land - Pond	National Library of Scotland	N	1892 - 1914		Infilled Land	D
302	Pit - Chalk	National Library of Scotland, Havant Borough Council	N	1866 - 1980	Known or suspected filled ground.	Infilled Land	D
303	Pit - Chalk	National Library of Scotland	N	1888 - 1913		Infilled Land	D
304	Military - Farlington Redoubt	https://www.heritagegateway.org.uk/Gateway/Details.aspx?cid=14032-24-R10 . Zetelia Detailed UXO report.	N	1860s - 1991	1860s - Farlington Redoubt, former barracks. Chalk pit 1931 - 1991. Chalk pit used as firing range during 1944.	Infilled Land	D
305	Waste Facility - Physical Treatment Facility	Google Earth	Y	Present	L&S Waste Management. EA Permit Number - DP3295HN, A16 : Physical Treatment Facility.	PSC	D
306	Pit - Chalk	National Library of Scotland	N	1860 - 1913	Former quarry	Infilled Land	D
307	Water Works - Treatment Works	Groundsure, Google Earth	Y	1931 - Present	Filter beds shown in the northern portion of the map. Filter tanks also shown on maps.	PSC	D
308	Water Works - Reservoir	National Library of Scotland	N	1897 - Present		PSC	D
310	Garage	Google Earth	Y	Present	Tyre repair / replacement garage.	PSC	E
311	Pit - Chalk	Historic Map 1859	N	1859 - 1932	Labelled 'old chalk pit' on 1859 map. Shown as 'Old chalk pit' and 'Collyer's Pit' on 1897 map buildings in the central area. Cottages shown by 1951.	Infilled Land	D
313	Pit - Chalk	National Library of Scotland	N	1859 - 1913	Eastern part extends across pipeline route.	Infilled Land	D
314	Pit - Unspecified	National Library of Scotland	N	1860-1913 - 1949-1970	Labelled 'The Dell'	Infilled Land	D
315	Infilled Land - Pond	National Library of Scotland	N	1869 - 1914		Infilled Land	D
316	Farm - Highbank Farm	National Library of Scotland	N	1970 - 1973		PSC	D
317	Infilled Land - Pond	National Library of Scotland	N	1888 - 1973		Infilled Land	D
318	Infilled Land - Pond	National Library of Scotland	N	1860 - 1913		Infilled Land	D
319	Water Works - Reservoir	National Library of Scotland	N	1897 - 1991	Reservoir(Portsouth Water Works).	Infilled Land	D
320	Railway - Portsdown & Horndean (Tram)	Historic Map 1910, Wikipedia	N	1903 - 1935	Portsdown & Horndean Light railway (tram).	PSC	D
321	Electricity Sub Station (Small)	ArcGIS Earth	Y	1960 - Present		PSC	D
322	Pit - Chalk	Historic Map 1859	N	1859 - 1995		Infilled Land	D
323	Pit - Chalk	Historic Map 1859	N	1859 - 1971		Infilled Land	D
324	Pit - Chalk	Historic Map 1859	N	1859 - 1963		Infilled Land	E
325	Pit - Clay	Historic Map 1860, Havant Borough Council	N	1860 - 1907	Known or suspected Made Ground (local authority records).	Infilled Land	D
326	Pit - Sand	Historic Map 1860, Environment Agency, Havant Borough Council	N	1860 - 1960	Privett Road Sand Pit. Input data and type unknown.	Infilled Land	D
327	Infilled Land - Pond	Historic Map 1860	N	1860 - 1991		Infilled Land	D
328	Infilled Land - Pond	Historic Map 1860	N	1860 - 1869		Infilled Land	D
329	Pit - Chalk	Historic Map 1866	N	1866 - 1969		Infilled Land	D
330	Pit - Chalk	Historic Map 1866, Havant Borough Council	N	1866 - 1897	Known or suspected filled ground (local authority records).	Infilled Land	D
331	Pit - Unspecified	Historic Map 1868	N	1868 - 1897	Davis's Grave / Beris's Grave	Infilled Land	D
332	Infilled Land - Pond	Historic Map 1895	N	1895 - 1937		Infilled Land	D
333	Infilled Land - Pond	Historic Map 1895	N	1895 - Present		Infilled Land	D
334	Infilled Land - Pond	Historic Map 1895	N	1895 - 1930		Infilled Land	D
335	Infilled Land - Pond	Historic Map 1895	N	1895 - 1937		Infilled Land	D
336	Pit - Gravel	Historic Map 1897, Havant Borough Council, Groundsure Historical Industrial Use layer	N	1897 - 1930	Known or suspected filled ground (local authority records).	Infilled Land	D
337	Infilled Land - Pond	Historic Map 1898	N	1898 - 1907		Infilled Land	D
338	Pit - Sand	Historic Map 1930	N	1930 - 1937		Infilled Land	D
339	Pit - Sand	Historic Map 1930	N	1930 - 1952		Infilled Land	D

PSC No.	Name	Source	Current	Dates	Description	Category	Section
340	Military - Fort Purbrook	Historic Map 1932	Y	1861 - 1968	Various uses. Last military use 1968. See Zeticia Detailed UXO Report P14032-24-R11, D Site.	Military	D
341	Agricultural - Nursery	Historic Map 1937	N	1937 - 1963		PSC	D
344	Water Works	Historic Map 1950	Y	1950 - Present	Drain (covered).	PSC	D
345	Infilled Land - Drain	Historic Map 1950	N	1950 - 1993	Drain (covered).	Infilled Land	D
346	Infilled Land - Drain	Historic Map 1950	N	1950 - 1993		Infilled Land	D
347	Infilled Land - Drain	Historic Map 1950	N	1950 - 1973		Infilled Land	D
348	Infilled Land - Drain	Historic Map 1950	N	1950 - 1973		Infilled Land	D
349	Electricity Sub Station (Small)	Historic Map 1951	Y	1951 - Present		PSC	D
350	Infilled Land - Pond	Historic Map 1952	N	1952 - 1959		Infilled Land	D
351	Infilled Land - Drain	Historic Map 1960	N	1960 - 1979		Infilled Land	D
352	Farm - Highbank Farm	Historic Map 1960	N	1960 - 1973		PSC	D
353	Infilled Land - Pond	Historic Map 1960	N	1960 - 1973		Infilled Land	E
354	Infilled Land - Drain	Historic Map 1960	N	1960 - 1975		Infilled Land	E
355	Infilled Land - Drain	Historic Map 1960	Y	1960 - Present	Looks to be covered but still mapped. Possibly realigned but Groundsure show a watercourse in this location by woodland	Infilled Land	E
356	Infilled Land - Swimming Pool	Historic Map 1969	N	1969 - 1982	Swimming Pool.	Infilled Land	D
357	Electricity Sub Station (Small)	Historic Map 1968	Y	1968 - Present		PSC	D
358	Water Works	Historic Map 1969	Y	1969 - Present	Reservoir (Covered).	Infilled Land	D E
359	Infilled Land - Swimming Pool	Historic Map 1969	N	1969 - 1973	Swimming Pool.	Infilled Land	D
360	Infilled Land - Swimming Pool	Historic Map 1969	N	1969 - 1973	Swimming Pool.	Infilled Land	D
361	Pit - Chalk	Historic Map 1969	N	1859 - 1980	Northern portion crosses pipeline route.	Infilled Land	D
363	Electricity Sub Station (Small)	Historic Map 1971	Y	1971 - Present		PSC	D
364	Water Works	Historic Map 1973	N	1973	Tank.	PSC	D
365	Water Works	Historic Map 1973	N	1973 - 1991		PSC	D
366	Water Works - Reservoir	Historic Map 1991	Y	1991 - Present	Covered Reservoir.	Infilled Land	D
367	Pit - Chalk	Historic Map 1993	N	1991 - Present	Potentially infilled.	Infilled Land	D E
368	Infilled Land - Marshland	Historic Map 1993	Y	1993 - Present		Infilled Land	E
369	Infilled Land - Marshland	Historic Map 1993	Y	1993 - Present		Infilled Land	E
370	Infilled Land - Made Ground (BGS)	Historic Map 1866, Havant Borough Council	N	1866 - 1974	Potential infill with Earth Spoils, Domestic Refuse, Incinerator Ash (local authority records).	Infilled Land	WRP (C), Budds Farm to WRP (C)
372	Infilled Land - Marshland	Historic Map 1866	N	1866 - 1993	Broad Marsh.	Infilled Land	WRP (C), Budds Farm to WRP (C), D
375	Infilled Land - Watercourse	Historic Map 1867	N	1863 - 1969	Former Hermitage Stream to Storehouse Lake.	Infilled Land	WRP (C), Budds Farm to WRP (C)
378	Wastewater Treatment Works - Budds Farm	Historic Map 1969	Y	1969 - Present	Budd's Farm Sewage Works.	PSC	Budds Farm (C), Budds Farm to WRP (C)
379	Wastewater Treatment Works - Lagoons	Historic Map 1969	N	1969 - 1991	Sewage Sludge.	Infilled Land	Budds Farm (C), Budds Farm to WRP (C)
381	Works - Aggregate	Historic Map 1991	Y	1991 - Present	Aggregate works currently owned by Tarmac. Hanson ready mixed concrete plant located on site.	PSC	Budds Farm to WRP (C)
382	Works	Google Earth, Historic Map 1971, Havant Borough Council	Y	1958 - Present	Garage / Depot / Works / Factory. Area of known or suspected filled ground (local authority records).	PSC	WRP to Havant Thicket Reservoir (B)
383	Railway - Building and siding	National Library of Scotland	N	1892 - 1914	Historical Maps do not detail use. Possibly for storage.	PSC	WRP to Havant Thicket Reservoir (B)
385	Infilled Land - Pond	National Library of Scotland	N	1892 - 1914	In proposed tunnel area.	Infilled Land	WRP to Havant Thicket Reservoir (B)
386	Infilled Land - Watercourse	National Library of Scotland	N	1888 - 1913		Infilled Land	WRP to Havant Thicket Reservoir (B)
387	Works - Corn Mill	National Library of Scotland, Historic Map 1866	N	1866 - 1951	Including Mills Dams and pond areas that have been infilled.	PSC	WRP to Havant Thicket Reservoir (B)
388	Wastewater Treatment Works	National Library of Scotland	N	1931 - 1966	Tanks and filter beds shown on 1939 historical map onwards.	PSC	WRP to Havant Thicket Reservoir (B)
389	Infilled Land - Watercourse	National Library of Scotland, Havant Borough Council	N	1892 - 1978	Area of known or suspected infilled soils (local authority records)	Infilled Land	WRP to Havant Thicket Reservoir (B)
391	Railway - South Western Railway	Historic Map 1866	Y	1866 - Present	South Western Railway branch line.	PSC	WRP to Havant Thicket Reservoir (B), D
392	Infilled Land - Pond	Historic Map 1866	N	1866 - 1951		Infilled Land	WRP to Havant Thicket Reservoir (B)
393	Infilled Land - Pond	Historic Map 1866	N	1868 - 1971		Infilled Land	WRP to Havant Thicket Reservoir (B)
394	Infilled Land - Pond	Historic Map 1866	N	1868 - 1907		Infilled Land	WRP to Havant Thicket Reservoir (B)
395	Water Works - Tank	Historic Map 1939	N	1939 - 1961		PSC	WRP to Havant Thicket Reservoir (B)
396	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
397	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
398	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
399	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
400	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
401	Water Works - Tank	Historic Map 1939	Y	1939 - Present		PSC	WRP to Havant Thicket Reservoir (B)
403	Wastewater Treatment Works	Historic Map 1952	N	1952 - 1957	1952 map shows sludge beds, filter beds, settling tanks, congestion tanks (east of Dunsbury Way) and humus tanks (west side of Dunsbury Way). Now an industrial estate.	PSC	WRP to Havant Thicket Reservoir (B)
405	Infilled Land - Pond	Historic Map 1953	N	1953 - 1971	Pond likely infilled, now forms part of residential gardens.	Infilled Land	WRP to Havant Thicket Reservoir (B)
406	Infilled Land - Pond	Historic Map 1953	N	1953 - 1973		Infilled Land	WRP to Havant Thicket Reservoir (B)
407	Water Works - Pumping station	Historic Map 1955	N	1955 - 1998		Infilled Land	WRP to Havant Thicket Reservoir (B)
408	Farm - Health Farm	Historic Map 1955	N	1955 - 1973	Farm	PSC	WRP to Havant Thicket Reservoir (B)
409	Infilled Land - Pond	Historic Map 1955	N	1955 - 1978	Pond, potentially infilled land	Infilled Land	WRP to Havant Thicket Reservoir (B)
411	Infilled Land - Drain	Historic Map 1955	N	1955 - 1978		Infilled Land	WRP to Havant Thicket Reservoir (B)
413	Infilled Land - Drain	Historic Map 1963	N	1963 - 1973		Infilled Land	WRP to Havant Thicket Reservoir (B)
414	Infilled Land - Drain	Historic Map 1963	N	1955 - 1973		Infilled Land	WRP to Havant Thicket Reservoir (B)
415	Farm - Hook's Farm	Historic Map 1966	N	1966 - 1971	Farm.	PSC	WRP to Havant Thicket Reservoir (B)
416	Infilled Land - Drain	Historic Map 1966	N	1966 - 1971	Drain - Infilled Land.	Infilled Land	WRP to Havant Thicket Reservoir (B)
417	Infilled Land - Drain	Historic Map 1966	N	1961 - 1973		Infilled Land	WRP to Havant Thicket Reservoir (B)
418	Infilled Land - Drain	Historic Map 1967	N	1967 - 1987		Infilled Land	E
420	Infilled Land - Swimming Pool	Historic Map 1974	Y	1974 - 1993	Swimming Pool - No Longer present, last record 1993.	PSC	WRP to Havant Thicket Reservoir (B)
421	Infilled Land - Pond	National Library of Scotland	N	1892 - 1914		Infilled Land	E
422	Farm - Dunsbury Hill Farm	National Library of Scotland, Google Earth	N	1840-1880- 1999	Last available map shown 1963 NLS map. Not shown on 1999 google photography.	PSC	E
424	Infilled Land - Pond	Historic Map 1952	Y	1866 - 1966	Pond - Potentially still present but obscured by trees.	Infilled Land	Havant Thicket Reservoir (A)
425	Infilled Land - Swimming Pool	Historic Map 1952	N	1952 - 1956	Swimming Pool - Part of Stockheath Naval Camp.	Infilled Land	Havant Thicket Reservoir (A)
426	Embankment	Historic Map 1956	N	1956 - 1964	Embankment - Crosses Pipeline Route.	PSC	WRP to Havant Thicket Reservoir (B)
427	Infilled Land - Drain	Historic Map 1975	Y	1975 - Present	Drain - Likely still present, potentially obscured by trees.	Infilled Land	Havant Thicket Reservoir (A)
428	Infilled Land - Drain	Historic Map 1988	N	1988 - 1991		Infilled Land	Havant Thicket Reservoir (A)
429	Infilled Land - Marshland	Historic Map 1866	N	1866 - 1938		Infilled Land	WRP (C), WRP to Bedhampton Springs (B)
430	Infilled Land - Pond	Historic Map 1951	N	1939 - 1969	Potentially still present.	Infilled Land	D

PSC No.	Name	Source	Current	Dates	Description	Category	Section
431	Works - Portsdown Windmill	Historic Map 1869	N	1856 - 1869		PSC	E
432	Pit - Unspecified	Historic Map 1980, Groundsure Historical Industrial Land use and waste disposal layers	N	1856 - 1991	Disused pit on 1980 map. Widley Dell on previous maps. Groundsure Waste Disposal layer notes 1952 used as landfill or other waste disposal site. Site may extend southwest outside of boundary.	Infilled Land	E
433	Pit - Chalk	Historic Map 1941	N	1908 - 1957		Infilled Land	E
434	Pit - Chalk	Historic Map 1908	N	1908 - 1993		Infilled Land	E
435	Pit - Gravel	Historic Map 1868	N	1868 - 1950		Infilled Land	G
437	Infilled Land - Worked Ground (BGS)	BGS	N	1963 - 1993	Appears to have been infilled by 1993.	Infilled Land	M
438	Infilled Land - Made Ground (BGS)	BGS	N	Unknown		Infilled Land	M
439	Pit - Unspecified	Groundsure Historical Land Use Layer	N	1869 - 1957		Infilled Land	L
440	Infilled Land - Made Ground (BGS)	BGS	N	Unknown		Infilled Land	L
441	Landfill - Crowd Hill Landfill	Environment Agency	N	1962 - 1972	SW Phase 2 ground investigation 2023 found very little to denote landfill. Approx 0 - 0.5m MG overlying natural deposits.	Infilled Land	L
442	Works - Brick works	Groundsure Historical Industrial Land Use layer	N	1895		PSC	L
443	Landfill - Land at Rossgarth Landfill	Hampshire County Council, Environment Agency, Phase 3c GI	N	1988 - 1995	EA input 1988 to 1995 (licence surrendered), inert waste. Local authority note - Gas risk - Gassing, Permeability - high'. Boundary extended west following Phase 3c GI hole 3J5007DS. MG to 3.6m bgl inc brick, concrete, glass, ceramics, cement.	Infilled Land	J
444	Works - Smithy	Groundsure Historical Industrial Land Use layer	N	1910		PSC	H
445	Worked Ground - unspecified	Groundsure Historical Land Use Layer	N	1965 - 1987	LIDAR shows ground level lower than surrounding area. Potentially not infilled.	Infilled Land	H
446	Worked Ground - Unspecified heap	Groundsure Historical Industrial Land Use layer	N	1868 - 1965		PSC	H
447	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1868 - 1869		Infilled Land	H
448	Landfill - Firth Lane Sand Pit	Winchester City Council, Hampshire County Council, Environment Agency, Google Earth	N	1998 - 2007	A01: co-disposal landfill site (EA), Licence application desk study undertaken 1997. Google Earth appears to show site closure by 2007.	Infilled Land	H
449	Landfill - Quob Copse Landfill	Environment Agency	N	1971 - 1972	Droxford Rural District Council, household / commercial landfill.	Infilled Land	G
450	Worked Ground - unspecified	Groundsure Historical Industrial Land Use layer	N	1908 - 1938		Infilled Land	G
451	Fuel Filling Station	Groundsure Historical Garages Layer	N	1961 - 1993	Information from Groundsure layer. Site is currently residential properties and a public house.	PSC	E
452	Infilled Land - Christ Church, London Road	Havant Borough Council	N	1897 - 1998	Waste type - Putrescible.	PSC	D
453	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1895		Infilled Land	D
454	Landfill - Disused Sand Pit B Brick and Tile works	Groundsure Historical Industrial Land use / Havant Borough Council	N	1930 - 1938	Local authority - suspected filled ground along the south of site.	Infilled Land	D
455	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1898 - 1938		Infilled Land	D
456	Landfill	Portsmouth City Council	N	1952	Waste disposal / unknown infill. Considered a landfill by the local authority.	Infilled Land	D
457	Pit - Chalk	Havant Borough Council, Groundsure Historical Industrial Land Use layer	N	1895 - 1963	Unknown material used to fill a small quarry hole.	Infilled Land	D
459	Infilled Land - Made Ground (BGS)	BGS / Havant Borough Council	Y	1969 - Present	Known or suspected infilled soils (local authority records). Historical mapping shows potential highways construction activities.	Infilled Land	WRP to Havant Thicket Reservoir (B), WRP (C), Budds Farm to WRP (C), D
460	Landfill - Land South of Budds Farm	Environment Agency, Havant Borough Council	N	2014	Bund erosion and water egress noted to EA. Former domestic waste landfill.	Infilled Land	Budds Farm (C), Budds Farm to WRP (C)
461	Infilled Land - Made Ground (BGS)	BGS	N	Unknown		Infilled Land	E
462	Landfill - Bedhampton Waterworks	Environment Agency, Havant Borough Council, Groundsure Historical Industrial Land use	N	Unknown	L05 inert landfill registered to Portsmouth Water. Area of known or suspected infilled soils (local authority records).	Infilled Land	WRP to Havant Thicket Reservoir (B)
463	Worked Ground - Heap	Groundsure Historical Industrial Land Use layer	N	1910 - 1963	Unspecified heap apart from 1931 which is recorded as unspecified ground workings. Tank recorded on site between 1897 - 1910.	Infilled Land	Havant Thicket Reservoir (A)
464	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1963 - 1991	Potential embankment on Historical Mapping.	Infilled Land	WRP to Havant Thicket Reservoir (B)
465	Pit - Unspecified	Groundsure Historical Industrial Land Use layer	N	1907 - 1963		Infilled Land	WRP to Havant Thicket Reservoir (B)
466	Landfill - Harts Farm Landfill	Environment Agency	N	1978 - unknown	Household waste landfill, site ref FHA15, 1760/113/6.	Infilled Land	WRP (C), Budds Farm to WRP (C), D
467	Worked Ground - unspecified	Groundsure Waste Disposal and Historical Industrial Uses layers	N	1952	Unknown hole. Potentially landfilled.	Infilled Land	E
468	Military - Research Facility	Google Maps, http://www.portsdown-tunnels.org.uk/	Y	1950 - Present	QinetiQ Technology Business park. Potential tanks on site.	Military	E
469	Military - Fort Southwick	Winchester County Council, / http://www.portsdown-tunnels.org.uk/	N	1861 - 2002	Various uses. Last military use 1968. See Zetia Detailed UXO Report P14032-24-R11, D Site.	Military	E
470	Worked Ground - unspecified	Groundsure Historical Industrial Land Use layer	N	1986 - 1987		Infilled Land	H
471	Worked Ground - unspecified	Groundsure Historical Industrial Land Use layer	N	1987		Infilled Land	J
472	Landfill - Crowd Hill Landfill	BGS Historical Landfill point	N	Unknown	Risk code G2, boundaries unknown, location shown at point.	Infilled Land	L
473	Worked Ground - unspecified	Groundsure Historical Industrial Land Use layer	N	1957 - 1968		Infilled Land	L
474	Military - Wintershill Hall (Former military / civilian base)	https://wintershill.net/about/	N	1941 - 1946	Headquarters of the Hampshire Fire Service. The lower lawn was covered in Nissen huts for offices and additional accommodation. 20m south of BPT-4.	PSC	K
475	Garage	Google Earth, Site visit 04052023	Y	Unknown - Present	Streetview shows Motorhome Service Centre. Above ground tank (metal) and bunded tank (plastic) at approx. 456320, 111685.	PSC	G
476	Works - Parchow Groundworks	Ground investigation site visit 26 March 2023	Y	Unknown - Present	Former telephone exchange.	PSC	E
478	Infilled Land - Artificial Ground	ROL-2-562-575-0135-1979 MAP	N	1937 - 1993	Artificial Land / Worked Ground may be associated with removal of woodlands	Infilled Land	M
479	Water Works - Pump house	A60-21-SU-0089	Y	1988 - Present	Pump House.	PSC	D
480	Pit - Various	HAM-076-10-XX-1909-G-01	N	1909 - 1932	Potentially Infilled Pit (Sand and Gravel) associated with RTD deposits.	PSC	D
481	Waste Facility - Incinerator	Groundsure 2023 Report	N	1987 - 1993		PSC	WRP (C)
482	Infilled Land - Pond	SU51SE-03-G-1957	Y	1939 - 1957	Former Un-named building which at present is an infilled pond (associated with the River Meon).	PSC	G
483	Farm - Crockerhill Farm	SU-51SE-03-G-1957	Y	1957		PSC	F
484	Farm - Building (potential)	SU-51E-03-G-1957	Y	1957		PSC	G
485	Wastewater Treatment Works	SU-51SE-01-G_1987	Y	1987	Sewage Works with 5 tanks, two settlement tanks.	PSC	G
487	Building - Un-named	HAM-075-03-XX-1941-G-01_1941	Y	1941		PSC	E
488	Infilled Land - Pond	ROL-4-1741-1750-0290_1986	Y	1986		Infilled Land	F
490	Infilled Land - Pond	SU810_S1_SEP_1994_1994	Y	1994		Infilled Land	F
492	Infilled Land - Pond	SU6109_1965_1965	Y	1965		Infilled Land	E
493	Railway - Meon	SU-51SE-03-G_1957	Y	1909 - 1957	Meon Railway.	PSC	G
494	Infilled Land - Pond	SU5909_S1_NOV_1992_1992	Y	1992		Infilled Land	F
495	Water Works - Reservoir (covered)	SU-51SE-01-G-1987	Y	1987		PSC	F G
496	Pit - Gravel	HAM-075-02-xx-1932	N	1932		Infilled Land	F
498	Wastewater Treatment Works	Groundsure Google Earth	Y	1965 - Present		PSC	E
499	Landfill	Portsmouth Borough Council Waste Disposal GIS	N	1952 - 1980	Potential landfill recorded by local authority, unknown infill (dated 1952 by local authority).	Infilled Land	E
500	Military - Belmont Camp II	Safelane WIL UXO Report 9714 RA Section 9.1.3	N	1940 - 1950	Camp's facilities included classrooms, training grounds, barracks, and administrative buildings.	PSC	D
501	Military - Stockheath Naval Camp	Safelane WIL UXO Report 9714 RA Section 9.1.3	N	1941 - 1970	Nissen huts in west of Camp, assault course south of PSC 425 swimming pool, practice trench in the north. South of PSC 428 drain. Site demolished in 1950 to 1970 and replaced with housing	Military	WRP to Havant Thicket Reservoir (B)
502	Military - HMS Daedalus III	Safelane WIL UXO Report 9714 RA Section 9.1.3 / Zetia P14032-24-R1-A Zetia UXO Desk Study, Havant Thicket Pipeline	N	1940 - 1950	Camp's facilities included classrooms, training grounds, barracks, and administrative buildings. Eastern extent passes pipeline route.	Military	WRP to Havant Thicket Reservoir (B)
503	Military - Fraser Naval Camp	Safelane WIL UXO Report 9714 RA Section 9.1.3	N	1940 - 1950	Camp's facilities included classrooms, training grounds, barracks, and administrative buildings. Northern part of the former barracks potentially passes through the pipeline route.	Military	WRP to Havant Thicket Reservoir (B)
504	Military - Belmont Naval Camp	Safelane WIL UXO Report 9714 RA Section 9.1.3	N	1940 - 1950	Camp's facilities included classrooms, training grounds, barracks, and administrative buildings.	Military	WRP to Havant Thicket Reservoir (B)
505	Farm - Widley Farm	Groundsure 2023 Report Winchester County Council	N	1860 - 1980	Farm buildings. Unknown filled ground (possible pond) noted in east of site by local authority	PSC	E
507	Farm - Offwell Farm	Groundsure 2023 Report	Y	1867 - Present		PSC	E
508	Landfill - Whitedell Farm	Environment, Agency Groundsure	N	1980 - 1982	Licence 10/14, FFA7, 1760/7 - Inert landfill.	PSC	F
509	Farm - Cloverfield Farm	OS Zoomstack maps	Y	2005 - Present		PSC	H
510	Worked Ground	Google Maps	Y	2023		PSC & Infilled Land	F
511	Worked Ground	Google Maps	Y	2023	Potential stockpile of unknown soil.	Infilled Land	F
512	Farm - Pig farm (potential)	Google Earth (2005)	N	2005 - 2007	Potential pig farm.	PSC	H

PSC No.	Name	Source	Current	Dates	Description	Category	Section
513	Farm - Barn	Google Maps, Groundsure Maps	Y	1986 - Present		PSC	G
514	Infilled Land - Made Ground (asbestos)	WfL Phase 2 Ground Investigation	Y	2023	Made Ground up to 0.7m bgl including brick, tile and macadam. Asbestos cement (0.147%) detected at 0.5m bgl. Source not delineated.	Infilled Land	J
515	Infilled Land - Artificial Ground	Groundsure Historic Maps	N	1937 - 1993		Infilled Land	M
516	Pit - Gravel	Groundsure Historic Maps, Winchester City Council Contaminated Land Data	N	1938 - 2010		Infilled Land	M
517	Farm - Storage area	Google Earth	Y	2015 - Present	Storage area.	PSC	M
519	Infilled Land - Artificial Ground	Winchester City Council Contaminated Land Data (Site Reports)	N	2016		Infilled Land	M
520	Infilled Land - Marshland	Groundsure Historic Maps	N	1868 - 1968		Infilled Land	L
522	Infilled Land - Marshland	Groundsure Historic Maps	N	1939 - 1968		Infilled Land	L
523	Farm - Storage area	Google Earth	Y	2000 - Present	Storage area.	PSC	L
524	Infilled Land - Watercourse	Groundsure Historic Map 1869, LIDAR data	N	1869 - 1888		Infilled Land	L
525	Infilled Land - Pond	Groundsure Historic Maps, LIDAR data, Google Earth	N	1868-1992		Infilled Land	L
526	Farm - Storage area	Google Earth, LIDAR data	Y	2014 - Present	Storage area for farm / stables to the southeast.	PSC	L
527	Embankment	Groundsure Historic Maps, LIDAR data	Y	1964 - Present		Infilled Land	L
528	Agricultural - Orchard	Groundsure Historic Maps	N	1868 - 1957		PSC	K
529	Worked Ground - Stockpile	Google Earth, LIDAR data	N	2012 - Present	Ground workings. Soil heap first visible in 2012, still present but overgrown in 2024 aerial photography.	PSC	K
530	Worked Ground - unspecified	Google Earth, Google Maps, LIDAR data	Y	2019 - Present		PSC	K
531	Infilled Land - Watercourse	Groundsure Historic Maps	N	1868 - 1964		Infilled Land	K
532	Infilled Land - Made Ground (BGS)	BGS, LIDAR data, Google Earth	N	Unknown	BGS Made Ground	Infilled Land	K
533	Embankment - (potential)	Groundsure Historic Maps, LIDAR data	Y	1964 - Present		PSC	J
534	Embankment	Groundsure Historic Maps, LIDAR data	Y	1964 - Present		PSC	J
535	Tank	Groundsure Historic Maps, Google Earth	N	1993 - 2012		PSC	J
536	Infilled Land - Pond	Groundsure Historic Maps, LIDAR data	N	1869 - 1964		Infilled Land	J
538	Farm - Storage area	Google Earth, Google Maps	Y	2019 - Present	Storage area.	PSC	J
539	Worked Ground - Stockpile	Google Earth, LIDAR data	Y	2014 - Present	Unspecified heap.	PSC	J
540	Farm - Storage area	Google Earth, Google Maps	Y	2012 - Present	Storage area.	PSC	J
541	Agricultural - Orchard	Groundsure Historic Maps	N	1868 - 1968		PSC	J
542	Infilled Land - Pond	Groundsure Historic Maps, LIDAR data	N	1868 - 1957		Infilled Land	J
543	Infilled Land - Pond	Groundsure Historic Maps	N	1868 - 1869		Infilled Land	H
544	Infilled Land - Marshland	Groundsure Historic Maps	N	1895 - 1896		Infilled Land	H
545	Farm - Building	Google Earth	Y	2005 - Present	Farm building.	PSC	H
546	Farm - Yard / Storage area	Google Earth	Y	2012 - Present	Yard / Storage area.	PSC	H
547	Farm	Google Earth	Y	pre-1999 - Present		PSC	H
548	Farm	Groundsure Historic Maps, Google Earth	Y	1868 - Present		PSC	K
582	Filter Beds or Potential Tanks	Historical Maps A28-17-SU7006SW 1959, Google Earth	N	1959-2007		PSC & Infilled Land	B
584	Tanks	Historical Maps 1969	Y	1969 - Present		PSC	D
587	Tanks	Historical Maps - 1939 HAM-076-10-XX-1939	N	1939 - 1969		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
588	Farm - Mayles Farm	Historical Map - A48-06-SU-0380-1980	Y	1980 - Present		PSC	G
592	Pit - Gravel	Groundsure Historical Maps	N	1859 - 1985		Infilled Land	F
593	Infilled Land - Reservoir	Historical Maps - HAM-075-01-XX-1910	N	1897 - 1910		Infilled Land	F
594	Infilled Land - Pond	Historical Maps - HAM-075-01-XX-1859	N	1856 - 1957		Infilled Land	F
595	Farm - Castle Farm	Historical Maps HAM-067-13-XX-1897-G-01	Y	1897 - Present		PSC	G
596	Wastewater Treatment Works - Filter beds / tanks	Historical Maps - A54-02-SU-0360_1969	N	1939 - 1993		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
597	Wastewater Treatment Works - Settlement Tanks	Historical Maps 2500 A33-18-SU-0239_1952	N	1952 - 1958		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
598	Wastewater Treatment Works - Filter beds (former)	Historical Maps 2500 - A33-18-SU-0239_1952	N	1952 - 1964		PSC	WRP to Havant Thicket Reservoir (B)
599	Tank - Congestion	Historical Maps 2500 - A33-18-SU-0239_1952	N	1952 - 1958		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
600	Infilled Land - Former Sludge Beds	Historical Maps - 2500 A33-18-SU-0239_1952	N	1952 - 1958		PSC & Infilled Land	WRP to Havant Thicket Reservoir (B)
601	Water Works - Pumping station	Historical Map - A49-02SU-0211_1971	N	1955 - 1975		PSC	WRP to Havant Thicket Reservoir (B)
602	Embankment	A28-22-SU7107-1_1955	N	1955 - 1971		PSC	WRP to Havant Thicket Reservoir (B)
603	Tank	Historical Maps - SU7108SE_1971 TO 1993, Google Earth	Y	1971 - Present		PSC	WRP to Havant Thicket Reservoir (B)
604	Electricity Sub Station (Small)	Historical Mapping - SU107SW_1969, Google Street View	Y	1969 - Present		PSC	WRP to Havant Thicket Reservoir (B)
605	Electricity Sub Station (Small)	Historical Maps - A60-01-SU-0576_1973, Groundsure Historical Energy Features	Y	1973 - Present	Potentially 2 substations have existed at this location. 1st substation approximately 1973 later replaced approximately 1993.	PSC	D
606	Infilled Land - Pond	Historical Map - A28-08-SU108NW-1_1957	N	1952 - 1964		Infilled Land	Havant Thicket Reservoir (A)
607	Fuel Petrol Filling Station	Google Earth Imagery	Y	1999 - Present		PSC	G
609	Electricity Sub Station (Small)	A32-04-SU7008-4_1964 - Groundsure	N	1964 - 1971		PSC	WRP to Havant Thicket Reservoir (B)
610	Garage	A32-04-SU7008-4_1964 - Groundsure	N	1964 - 1995		PSC	WRP to Havant Thicket Reservoir (B)
611	Farm - Leigh Park Farm	Groundsure Historical Map 1975	N	1991 - Present		PSC	WRP to Havant Thicket Reservoir (B)
612	Pit - Unspecified	Groundsure 2024 Report	N	1968 - 1980	Unspecified Hole. No additional information on Groundsure maps. Potentially an infilled pit.	Infilled Land	M
613	Water Works - Pumping station	Groundsure 2024 Report	N	1980	Groundsure maps indicate a pumping station.	Ground Investigation	L
614	Wastewater Treatment Works	Aerial imagery and Groundsure 2024 reporting	Y	1993 - Present	Sewage Treatment Works.	PSC	K
621	Works - Industrial Estate	Groundsure	N	1939 - 1992	Saw Mills between 1939 - 1990s, then industrial estate.	PSC	F
622	Military - Anti-aircraft Battery	Winchester City Council	N	1939 - 1946	Dates are approximate. Information from Winchester City Council Potential Contaminative use GIS 1_2500 2km buffer 2022.	PSC	Havant Thicket Reservoir (A)
623	Military - Leigh Park House	Zetica Detailed Desk Study	N	1940 - 1957	Used by Admiralty Mine Design Department for administration and design of mines, depth changes and minesweeping. Explosive stored in the 'ice house'. See Zetica Detrail Risk Assessment for detail.	PSC	Havant Thicket Reservoir (A)
624	Pit - Unspecified	Groundsure Winchester City Council	N	1868	Shown only on 1868 map. Reduced ground level also visible on LIDAR.	Infilled Land	E
626	Infilled Land - Drain	Groundsure	N	1868 - 1980	Partially infilled by 1980 south of Mayles Lodge.	Infilled Land	G
627	Infilled Land - Drain	Groundsure	N	1868 - 1994	Drain south of sewage works no longer shown on maps.	Infilled Land	G
628	Works - Depot	Groundsure Google Maps Winchester City Council	Y	1964 - Present	'Depot' shown on maps until 1989. Buildings remain on 2019 Google Earth photography	PSC	K

Appendices

Appendix A: Section E Desk Study Information Specific to the GI

Table A1 and **Table A2** summarise desk study information specific for the Phase 2 and Phase 3B/3C GI areas in BPT-E / IPS-E and Section E, respectively. The information was used to develop the preliminary conceptual site model (CSM) presented in the HWTWRP Geotechnical and Geo-environmental desk study Version 4 (SSP, 2024).

Table A1: Geo-environmental Desk Study Summary Information for Phase 2 and Phase 3B/3C Exploratory Hole Locations for BPT-E / IPS-E

		2E3000RC	2E3001RC	2E3002RC	3E7501IT, 3E7502IT, 3E7503IT, 3E7504IT, 3E7505IT, 3E7506IT, 3E7507IT, 3E7508IT
Geology	Superficial Deposits	Absent	Absent	Absent	Absent
	Bedrock Geology	Portsdown Chalk Formation			
	Artificial/ Made Ground ¹	Absent	Absent	Absent	Absent
Hydrogeology	Bedrock Aquifer Classification	Principal Aquifer (Chalk)			
	Superficial Aquifer Classification	N/A	N/A	N/A	N/A
	Source Protection Zones (SPZs)	None	None	None	None
	Drinking Water Safeguard Zone (DWSgZ)	None	None	None	None
	Groundwater Abstractions ¹	None	None	None	None
	Groundwater Nitrate Vulnerable Zone	Groundwater G58 - Fareham NVZ			
Hydrology	Surface Watercourses ¹	No watercourses or waterbodies within 250 m. A covered reservoir is located approximately 90 m east of 2E3002RC.			
	Surface Water DWSgZ	None	None	None	None
	Surface Water Abstractions ¹	None	None	None	None
	Nitrate Vulnerable Zone	Eutrophic Water ET2 – Chichester, Langstone and Portsmouth Harbours Eutrophic NVZ.			
Flooding	Risk from Rivers and the Sea	Flood Zone 1	Flood Zone 1	Flood Zone 1	Flood Zone 1
Site History	On Site	Earliest mapping to the present day shows the investigation areas to remain as open undeveloped farmland.			
	Surrounding Land	Earliest mapping to the present day shows most of the land to the west and north of the GI locations to remain as open undeveloped farmland. Two potentially infilled pits are mapped from c.1888, c.160 m north (PSC 262) and northeast (PSC 499) of 2E3001RC. Mapping dated c.1888 also shows three chalk pits (disused) c.120 m south (PSC 324), 160 m (PSC 313) and 230 m southeast (PSC 323) of 2E3002RC, which become infilled in c.1940s. A reservoir, part of the Borough of Portsmouth Water Works Company (PSC 319), is recorded c.160 m east of 2E3002RC on 1888 to 1991 mapping (NLS, 2023). A building located c.60 m northwest of 2E3001RC is shown on 1955-1961 mapping (NLS, 2023) to the present day, and is known to have been in use as a telecoms repeater station (telephone exchange) and is currently occupied by Parchow Groundworks (PSC 476). Aerial photography dated 1999 to the present day (Google Earth, 2023) shows a covered reservoir (part of Portsmouth Water Works; PSC 358) with several telecom masts 90 m east of 2E3002RC.			
Landfill Sites		There are no current or historical landfill sites within 250 m of the GI locations.			
Pollution Incidents		There are no pollution incidents (category 1 or 2) within 50 m of the GI locations.			
Ecological Sensitivity (250m radius)	Sites of Special Scientific Interest (SSSIs)	Portsdown SSSI c.160 m south of BPT-E / IPS-E location			
	Special Areas of Conservation (SAC)	None	None	None	None
	Special Protection Areas (SPAs)				
	RAMSAR site				
	National Nature Reserve (NNR)				
Ancient Woodlands					
Overall Risk Assessment from the Desk Study		Potential contaminant linkages with a Moderate / Low risk were identified for construction and maintenance workers, future sites users and on Site future property (buildings and buried services) in relation to direct dermal contact, ingestion and inhalation of dusts, gases and vapours and gas migration/accumulation in building structures. All other potential contaminant linkages were classified as low or very low risk.			

¹ Includes active groundwater and surface water abstractions within 1 km; surface waters up to 250 m; artificial ground up to 250 m.
 All distances are approximate.

Table A2: Geo-environmental Desk Study Summary Information for Phase 3B/3C Exploratory Hole Locations for Section E

		3E3100DS, 3E3101TP, 3E3102TP	3E3103HP, 3E3104HP, 3E3105HP	3E3106TP, 3E3107HP	3E3019DS, 3E3020DS, 3E3021DS, 3E3022HP, 3E3023TP, 3E3108TP, 3E3109HP, 3E3110DS	3E3111HP	3E3028HP, 3E3119HP, 3E3112TP, 3E3113HP, 3E3114DS, 3E3115DS	3E3034HP, 3E3038HP	3E3035DS, 3E3036DS		
Geology	Superficial Deposits	Absent			Head		Absent		Head		
	Bedrock Geology	Portsdown Chalk Formation	Lambeth Group	Portsdown Chalk Formation							
	Artificial/ Made Ground ¹	Absent									
Hydrogeology	Bedrock Aquifer Classification	Principal Aquifer (Chalk)	Secondary A	Principal Aquifer (Chalk)							
	Superficial Aquifer Classification	N/A					Secondary Undifferentiated	N/A	Secondary Undifferentiated	N/A	
	Source Protection Zones (SPZs)	None									
	Drinking Water Safeguard Zone (DWSgZ)	None									
	Groundwater Abstractions ¹	None						175 m north to 880 m northwest	350 m northeast of 3E3034HP	550-750 m northeast	
	Groundwater Nitrate Vulnerable Zone	Groundwater G58 - Fareham NVZ	None	Groundwater G58 - Fareham NVZ							
Hydrology	Surface Water Courses ¹	A covered reservoir is located c.100 m south of 3E3100DS and c.170 m southeast of 3E3101TP.	No watercourses or waterbodies within 250 m.								
	Surface Water DWSgZ	None									
	Surface Water Abstractions ¹	None									
	Nitrate Vulnerable Zone	Eutrophic Water ET2 – Chichester, Langstone and Portsmouth Harbours Eutrophic NVZ.									
Flooding	Risk from Rivers and the Sea	Flood Zone 1									
Site History	On Site	Earliest mapping to the present day shows the investigation areas to remain as open undeveloped farmland, except for 3E3023TP, 3E3108TP, 3E3114DS and 3E3115DS which are shown to be at the location of potentially infilled chalk pits (present c.1856 and 1957).									
	Surrounding Land	The earliest mapping indicates the Section was located within an undeveloped area with Old Chalk Pits recorded across the Section (majority are no longer recorded by c.1955-61). A reservoir was recorded c.1937-61 within the central area, east of Offwell Farm (no longer shown by 1949-1970 and 1955-61). A Water works (covered reservoir) has been present in the eastern corner of Section E since c. 1969. A small reservoir was also shown just to the south between c.1938 – 1951 and was part of the Portsmouth Waterworks.									
Landfill Sites		There are no current or historical landfill sites within 250 m of the GI locations.									
Pollution Incidents		There are no pollution incidents (category 1 or 2) within 50 m of the GI locations.									
Ecological Sensitivity (250m radius)	Sites of Special Scientific Interest (SSSIs)	None	None	None	None	None	None	None	None	None	
	Special Areas of Conservation (SAC)										
	Special Protection Areas (SPAs)										
	RAMSAR site										
	National Nature Reserve (NNR)										
Ancient Woodlands	Stroud Coppice c.140 m north of 3E3034HP	Stroud Coppice c.80 m north of 3E3035DS and c.150 m northeast of 3E3036DS									

		3E3100DS, 3E3101TP, 3E3102TP	3E3103HP, 3E3104HP, 3E3105HP	3E3106TP, 3E3107HP	3E3019DS, 3E3020DS, 3E3021DS, 3E3022HP, 3E3023TP, 3E3108TP, 3E3109HP, 3E3110DS	3E3111HP	3E3028HP, 3E3119HP, 3E3112TP, 3E3113HP, 3E3114DS, 3E3115DS	3E3034HP, 3E3038HP	3E3035DS, 3E3036DS
Overall Risk Assessment from the Desk Study		Potential contaminant linkages with a Moderate / Low risk were identified for construction and maintenance workers, future sites users and on Site future property (buildings and buried services) in relation to direct dermal contact, ingestion and inhalation of dusts and vapours and gas migration/accumulation in building structures. All other potential contaminant linkages were classified as low or very low risk.	N/A	Potential contaminant linkages with a moderate risk were identified for construction and maintenance workers and future sites users in relation to direct dermal contact, ingestion and inhalation of dusts, gases and vapours, and for groundwater due to leaching of contaminants through soil. All other potential contaminant linkages were classified as low risk.	Potential contaminant linkages with a Moderate / Low to Moderate risk were identified for construction and maintenance workers and future sites users in relation to direct dermal contact, ingestion and inhalation of dusts, gases and vapours, and for groundwater due to leaching of contaminants through soil. All other potential contaminant linkages were classified as low risk.	N/A	Potential contaminant linkages with a moderate risk were identified for construction and maintenance workers and future sites users in relation to direct dermal contact, ingestion and inhalation of dusts, gases and vapours, and for groundwater due to leaching of contaminants through soil. All other potential contaminant linkages were classified as low risk.	N/A	Potential contaminant linkages with a moderate risk were identified for construction and maintenance workers and future sites users in relation to direct dermal contact, ingestion and inhalation of dusts, gases and vapours, and for groundwater due to leaching of contaminants through soil. All other potential contaminant linkages were classified as low risk.

¹ Includes active groundwater and surface water abstractions within 1 km; surface waters up to 250 m; artificial ground up to 250 m. All distances are approximate.

Appendix B: Chemical Analysis List of Suites and Geo-environmental Testing

Table B1: Summary of Geo-environmental Laboratory Tests for Phase 2 GI locations

Sample ID	Analysis Suites ¹			
	Soils			
	Suite 1.3 Natural ²	Suite 1.7 Pesticides	Suite 1.8 Herbicides	Suite 1.10 Waste Acceptance Criteria (WAC)
2E3000RC 0.15 m	✓	✓	✓	✓
2E3000RC 1.0 m	✓			
2E3000RC 6.0 m	✓			✓
2E3001RC 0.15 m	✓	✓	✓	✓
2E3001RC 1.0 m	✓			
2E3001RC 3.07 m	✓			*
2E3002RC 0.15 m	✓	✓	✓	
2E3002RC 1.0 m	✓			✓
2E3002RC 6.2 m	✓			✓
Total completed / requested	9 / 9	3 / 3	3 / 3	5 / 5

1 List of analytes included in each suite is presented in **Appendix B**.

2 Although requested, Nickel analysis was not completed for all samples.

✓ Requested and completed.

Table B2: Summary of Geo-environmental Laboratory Tests for Phase 3B/3C GI locations

Sample ID	Analysis Suites ¹									
	Soils							Soil Leachate (including Suite 3.0 Soil Leachate Prep)		
	Suite 1.1 Made Ground	Suite 1.3 Natural ²	Suite 1.7 Pesticides	Suite 1.8 Herbicides	Suite 2.1 Farm	Suite 2.15 Potentially Infilled Land	Suite 2.5 Works Standard	Suite 4.1 Farms	Suite 4.14 Potentially Infilled Land	Suite 4.15 BGS Made Ground / Landfill
3E3019DS 0.5 m					ER-CoC			ER-CoC		
3E3019DS 1.1 m		ER-CoC								
3E3020DS 0.1 m			✓	✓		✓			✓nRC	
3E3020DS 0.5 m						✓			R	
3E3020DS 1.5 m						✓			✓	
3E3021DS 0.1 m						✓			✓	
3E3021DS 1.0 m						✓			✓	
3E3021DS 2.5 m						✓				
3E3022HP 0.1 m		✓								
3E3022HP 0.9 m		✓								
3E3023TP 0.1 m						✓				
3E3023TP 1.0 m						✓			✓	
3E3023TP 4.0 m						R-IS			✓	
3E3028HP 0.1 m		✓								
3E3028HP 1.0 m		✓								
3E3034HP 0.5 m		✓								
3E3034HP 1.0 m		✓								
3E3035DS 0.1 m						✓				
3E3035DS 1.0 m						✓				
3E3036DS 0.2 m									✓	
3E3036DS 0.5 m									✓	
3E3036DS 2.5 m		✓								
3E3038HP 0.1 m		✓								
3E3038HP 0.5 m		✓								
3E3100DS 0.1 m			✓	✓		✓				
3E3100DS 1.0 m		✓								
3E3101TP 0.5 m							✓			
3E3102TP 0.1 m			R	✓		✓				
3E3102TP 0.9 m		✓								
3E3103HP 0.2 m		✓								
3E3103HP 1.0 m		✓								
3E3104HP 0.2 m		✓	✓	✓						
3E3104HP 1.0 m		✓								
3E3105HP 0.5 m		✓								
3E3105HP 1.0 m		✓								
3E3106TP 0.1 m						✓				
3E3106TP 0.5 m						✓			✓	
3E3106TP 1.2 m						✓			✓	
3E3107HP 0.1 m		✓								
3E3107HP 1.0 m		✓								
3E3108TP 0.1 m						✓				
3E3108TP 1.0 m						✓				
3E3109HP 0.1 m		✓								
3E3109HP 1.0 m		✓								
3E3110DS 0.5 m						✓			✓	
3E3110DS 1.0 m						✓				
3E3110DS 2.5 m						R-M			R-M	
3E3111HP 0.1 m	✓									
3E3111HP 1.0 m		✓								
3E3112TP 0.1 m						✓				
3E3112TP 1.0 m						✓			✓	
3E3113HP 0.1 m		✓								
3E3113HP 1.0 m		✓								
3E3114DS 0.5 m										✓
3E3114DS 2.5 m										✓
3E3115DS 0.5 m						✓				

Sample ID	Analysis Suites ¹									
	Soils							Soil Leachate (including Suite 3.0 Soil Leachate Prep)		
	Suite 1.1 Made Ground	Suite 1.3 Natural ²	Suite 1.7 Pesticides	Suite 1.8 Herbicides	Suite 2.1 Farm	Suite 2.15 Potentially Infilled Land	Suite 2.5 Works Standard	Suite 4.1 Farms	Suite 4.14 Potentially Infilled Land	Suite 4.15 BGS Made Ground / Landfill
3E3115DS 1.0 m						✓			✓	
3E3115DS 3.7 m						✓			✓	
3E3115DS 4.6 m						✓				
3E3119HP 0.1 m		✓								
3E3119HP 1.0 m		✓								
Total completed / requested	1 / 1	26 / 26	3 / 4	4 / 4	0 / 0	25 / 27	1 / 1	0 / 0	14 / 15	2 / 2

- 1 List of analytes included in each suite is presented in **Appendix B**.
- 2 Although requested, Nickel analysis was not completed for all samples.
- ✓ Requested and completed.
- ✓nRC Analysis was completed instead of 3E3020DS 0.5 m sample due to human error (SOCOTEC, 2024).
- ER-CoC Scheduling error - Chain of Custody (CoC) not returned to SOCOTEC.
- R Requested but not received to date in either AGS format or Final Factual GI report (SOCOTEC, 2024)
- R-IS Requested but insufficient sample material to complete the test (SOCOTEC, 2024).
- R-M Requested but sample misplaced by the lab (SOCOTEC, 2024).

Appendix C: Deviations Reported by Analytical Laboratory

SOIL AND SOIL LEACHATE

The following soil and soil leachate sample deviations have been reported by the analytical laboratory:

- The quality control (QC) associated with some results has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
- A non-standard volume or mass has been used which has resulted in a raised detection limit.
- Acceptable (holding) time between the sampling date and laboratory analysis was exceeded. Holding times are derived based on 'stability'; the ability of a property to remain unchanged, within a stated uncertainty, under given storage conditions and a specific timeframe. If a reported result is within the holding time it is known that the degree of change (if it occurs) is not statistically meaningful. If the sample result is reported as 'deviating', the degree of change is unknown and therefore may have affected the result the result must; therefore, be treated as potentially indicative.

Table C1a: Soil Sample Deviations from Phase 2 GI locations

Analyte or Analytical Method	BH ID and Sample Depth (m bgl)			
	2E3000RC		2E3001RC	
	0.15	1.0	0.15	1.0
Total GRO (>C6-C10)	#	#	#	#
BTEX for WAC by GCFID	#		#	

Notes:

– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.

Table C1b: Soil Sample Deviations from Phase 3B/3C GI locations

Analyte or Analytical Method	BH ID and Sample Depth (m bgl)																									
	3E3020DS	3E3021DS	3E3023TP		3E3034HP	3E3035DS	3E3036DS	3E3038HP	3E3100DS		3E3101TP	3E3102TP		3E3103HP	3E3104HP	3E3105HP	3E3106TP	3E3107HP	3E3108TP	3E3110DS	3E3111HP	3E3112TP	3E3113HP	3E3115DS	3E3119HP	
	0.1, 0.5, 1.5	0.1, 1.0, 2.5	0.1	1.0	0.5, 1.0	0.1, 1.0	2.5-2.6	0.1, 0.5	0.1	1.0	0.5	0.1	0.9	0.2, 1.0	0.2, 1.0	0.5, 1.0	0.1, 0.5, 1.2	0.1, 1.0	0.1, 1.0	0.5, 1.0	0.1	0.1, 1.0	0.1, 1.0	0.5, 1.0, 3.7, 4.6	0.1, 1.0	
Benzene																			B					B		
Benzo[a]pyrene																									B	
BTEXHSA	#	#							#		#	#					#			#		#		#		
C5-C6 Aliphatic									B		B															
>C6-C8 Aliphatic																			B						B	
>C8-C10 Aliphatic	B	B										B											B		B	
>C10-C12 Aliphatic			B			B				B	B						B		B							
>C16-C21 Aliphatic	B		B	B		B											B		B		B			B		
>C21-C35 Aliphatic								B																		
C5-C7 Aromatic																			B					B		
>C8-C10 Aromatic												B														
>C16-C21 Aromatic																					B					
>C21-C35 Aromatic			B																B							
Ethylbenzene												B														
GROHSA							#	#		#		#	#	#	#	#		#					#		IS	
GROHSA/BTEXHSA	#	#							#		#	#					#			#		#		#		
KONENS	#																									
PAHMSUS	#	#				#											#		#	#				#		
PCB 28						B											B									
PCB 101								B																B		
PHEHPLCUV	#		#	#																						
PHSOIL	#	#															#	#		#			#	#	IS	
Pyrene		B																		B						
SFAPI	#	#															#		#	#		#		#		
TPHFIDUS (Aliphatic, Aromatic and/or SCU)	#	#			#	#											#	#	#	#			#	#	IS	

Notes:

B – The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed.

IS – Insufficient Sample to complete analysis.

– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.

Table C2: Soil Leachate (2:1) Sample Deviations

Analyte or Analytical Method	BH ID and Sample Depth (m bgl)					
	3E3023TP		3E3114DS		3E3115DS	
	1.0	4.0	0.5	2.5	1.0	3.7
AHBLCMS			D	D	D	D
PAHMSW	D	D			D	D
PCBECD					D	D
PESTSW-OCP					D	D
PESTSW-OPP					D	D
PFAS-W			#	#	#	
SFAPI	#	#				
SVOCW					D	D
TPHFID (Aliphatic and Aromatic)	D	D			D	D

Notes:

D – A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.

– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.

Table C3: WAC (10:1 Soil Leachate) Sample Deviations

Analyte or Analytical Method	BH ID and Sample Depth (m bgl)		
	3E3020DS		
	0.1	0.5	1.5
Leached Organic Carbon	#	#	#

Notes:

– Acceptable (holding) time between the sampling date and laboratory analysis was exceeded.

Table C4: Soil Leachate (2:1) Sample MDL Exceedances of the GAC

BH ID	Sample Depth (m bgl)	Analyte and Analytical Method	LOD ($\mu\text{g}/\text{kg}$)	Generic Assessment Criteria ($\mu\text{g}/\text{kg}$)
3E3020DS	0.1, 1.5	Benzene (BTEX by GCFID method)	5	1
3E3021DS	0.1, 1.0	Benzene (BTEX by GCFID method)	5	1
3E3023TP	1.0, 4.0	Benzene (BTEX by GCFID method)	5	1
		Benzo(a)pyrene (PAHMSW method)	0.04	0.01
		TPH (CWG UK) Aliphatic and Aromatic Split with Carbon Banding	40	10
3E3036DS	0.2, 0.5	Benzene (BTEX by GCFID method)	5	1
3E3106TP	0.5, 1.2	Benzene (BTEX by GCFID method)	5	1
3E3110DS	0.5	Benzene (BTEX by GCFID method)	5	1
3E3112TP	1.0	Benzene (BTEX by GCFID method)	5	1
3E3115DS	1.0	Benzo(a)pyrene (PAHMSW method)	0.02	0.01
		TPH (CWG UK) Aliphatic and Aromatic Split with Carbon Banding	20	10

BH ID	Sample Depth (m bgl)	Analyte and Analytical Method	LOD (µg/kg)	Generic Assessment Criteria (µg/kg)
3E3115DS	3.7	Benzo(a)pyrene (PAHMSW method)	0.03	0.01
		TPH (CWG UK) Aliphatic and Aromatic Split with Carbon Banding	30	10
All Section E soil leachate samples		GRO CWG UK (C5-C10) Aliphatic Split	100	10
		GRO CWG UK (C5-C10) >C8 to C10 Aromatic Split	20	10

Appendix D: Geo-Environmental Laboratory Analysis Summary Screening Tables

Analyte	Screening Criteria	S4UL Reference Page	Sample ID	2E3000RC	2E3000RC	2E3000RC	2E3001RC	2E3001RC	2E3001RC	2E3002RC	2E3002RC	2E3002RC
	GAC Land Use	Commercial	Sample Depth	0.2	1.0	6.0	0.2	1.0	3.1	0.2	1.0	6.2
	SOM	1.0%	Sample GEOL GEOL	TOP	WHCK		TOP	WHCK	WHCK	TOP	WHCK	
Volatile Organic Compounds												
Vinyl Chloride	mg/kg	0.059										
1,1-Dichloroethene	mg/kg											
Dichloromethane	mg/kg											
trans-1,2-Dichloroethene	mg/kg											
1,1-Dichloroethane	mg/kg											
2,2-Dichloropropane	mg/kg											
cis-1,2-Dichloroethene	mg/kg											
Bromochloromethane	mg/kg											
Chloroform	mg/kg	99										
1,1,1-Trichloroethane	mg/kg	660										
Carbontetrachloride	mg/kg	2.9										
1,1-Dichloropropene	mg/kg											
1,2-Dichloroethane	mg/kg	0.67										
1,2-Dichloropropane	mg/kg											
Dibromomethane	mg/kg											
Bromodichloromethane	mg/kg											
trans-1,3-Dichloropropene	mg/kg											
cis-1,3-Dichloropropene	mg/kg											
1,1,2-Trichloroethane	mg/kg											
1,3-Dichloropropane	mg/kg											
Dibromochloromethane	mg/kg											
1,2-Dibromoethane	mg/kg											
Chlorobenzene	mg/kg	56										
1,1,2,2-Tetrachloroethane	mg/kg	270										
1,1,1,2-Tetrachloroethane	mg/kg	110										
Trichloroethene	mg/kg	1.2										
Tetrachloroethene	mg/kg	19										
2,4,6-Trinitrotoluene (TNT)	mg/kg	1000										
HMX	mg/kg	110000										
RDX	mg/kg	210000										
1,2,3,4-Tetrachlorobenzene (TeCB)	mg/kg	1700 (122)		<0.00112			<0.00116			<0.00117		
1,2,3,5-Tetrachlorobenzene (TeCB)	mg/kg	49 (39.4)										
1,2,4,5-Tetrachlorobenzene	mg/kg	42 (19.7*)										
Pentachlorobenzene (PeCB)	mg/kg	640 (43*)		<0.00112			<0.00116			<0.00117		
Carbon Disulphide	mg/kg	11										
Hexachlorobutadiene	mg/kg	31										
2,4-Dinitrotoluene	mg/kg											
2,6-Dinitrotoluene	mg/kg											
2-Chloronaphthalene	mg/kg											
Biphenyl	mg/kg											
Bromobenzene	mg/kg											
Bromoform	mg/kg											
Chloroethane	mg/kg											
Chloromethane	mg/kg											
bis(2-Ethylhexyl) phthalate	mg/kg											
Butylbenzyl phthalate	mg/kg											
Diethyl phthalate	mg/kg											
n-Dibutyl phthalate	mg/kg											
n-Dioctyl phthalate	mg/kg											
Herbicides/Insecticides												
Aldrin	mg/kg	170		<0.00225			<0.00232			<0.00234		
Dieldrin	mg/kg	170		<0.00562			<0.00581			<0.00585		
Atrazine	mg/kg	9300		<0.00225			<0.00232			<0.00234		
Dichlorvos (DDVP)	mg/kg	140		<0.00225			<0.00232			<0.00234		
Alpha-Endosulfan	mg/kg	5600 (0.003)		<0.00112			<0.00116			<0.00117		
Beta-Endosulfan	mg/kg	6300 (0.00007)		<0.0112			<0.0116			<0.0117		
Alpha-Hexachlorocyclohexanes	mg/kg	170		<0.00225			<0.00232			<0.00234		
Beta-Hexachlorocyclohexanes	mg/kg	65		<0.00225			<0.00232			<0.00234		
Gamma-Hexachlorocyclohexanes	mg/kg	67		<0.00112			<0.00116			<0.00117		
1,2-Dichlorobenzene	mg/kg	2000 (571*)										
1,3-Dichlorobenzene	mg/kg	30										
1,4-Dichlorobenzene	mg/kg	4400 (224)										
1,2,3-Trichlorobenzene	mg/kg	102		<0.00112			<0.00116			<0.00117		
1,2,4-Trichlorobenzene	mg/kg	220										
1,3,5-Trichlorobenzene	mg/kg	23		<0.00112			<0.00116			<0.00117		
Hexachlorobenzene	mg/kg	110 (0.2)		<0.00225			<0.00232			<0.00234		
Hexachloroethane	mg/kg											
Total CFC (for Haz)	mg/kg											
Moisture.												
Moisture Content Ratio (% of as received sample)	%			11.1	14.5	20.3	13.9	17.8	16	14.6	16.9	18.9
PFOA/PFOS												
PFOA	mg/kg	0.6										
PFOS	mg/kg	0.6										
PFHxS	mg/kg	0.6										
PFNA	mg/kg	0.6										
Hazard Quotient	%	1										

	Screening Criteria	S4UL Reference Page	3E3111HP	3E3112TP	3E3112TP	3E3113HP	3E3113HP	3E3114DS	3E3114DS	3E3114DS	3E3115DS	3E3115DS	3E3115DS	3E3119HP	3E3119HP
Analyte	GAC Land Use	Commercial	1.00	0.10	1.00	0.10	1.00	0.50	2.50	0.50	1.00	3.70	4.60	0.10	1.00
	SOM	2.5%	Head	TOP	WHCK	TOP	WHCK	WHCK	WHCK	MGR	MGR	MGR	MGR	TOP	Head
Isopropylbenzene	mg/kg														
Propylbenzene	mg/kg														
Styrene	mg/kg														
TPH MAX Value (for HWO)															
			<23.6	38.7	37.06	42.2	<24.9	0	0	78.7	25.91	282.96	55.75	0	0
Volatile Organic Compounds															
Vinyl Chloride	mg/kg	0.077													
1,1-Dichloroethene	mg/kg														
Dichloromethane	mg/kg														
trans-1,2-Dichloroethene	mg/kg														
1,1-Dichloroethane	mg/kg														
2,2-Dichloropropane	mg/kg														
cis-1,2-Dichloroethane	mg/kg														
Bromochloromethane	mg/kg														
Chloroform	mg/kg	170													
1,1,1-Trichloroethane	mg/kg	1300													
Carbon tetrachloride	mg/kg	6.3													
1,1-Dichloropropene	mg/kg														
1,2-Dichloroethane	mg/kg	0.97													
1,2-Dichloropropane	mg/kg														
Dibromomethane	mg/kg														
Bromodichloromethane	mg/kg														
trans-1,3-Dichloropropene	mg/kg														
cis-1,3-Dichloropropene	mg/kg														
1,1,2-Trichloroethane	mg/kg														
1,3-Dichloropropane	mg/kg														
Dibromochloromethane	mg/kg														
1,2-Dibromoethane	mg/kg														
Chlorobenzene	mg/kg	130													
1,1,2,2-Tetrachloroethane	mg/kg	550													
1,1,1,2-Tetrachloroethane	mg/kg	250													
Trichloroethene	mg/kg	2.6													
Tetrachloroethene	mg/kg	42													
2,4,6-Trinitrotoluene (TNT)	mg/kg	1000													
HMX	mg/kg	110000													
RDX	mg/kg	210000													
1,2,3,4-Tetrachlorobenzene (TeCB)	mg/kg	3080 (304)													
1,2,3,5-Tetrachlorobenzene (TeCB)	mg/kg	120 (98.1)													
1,2,4,5-Tetrachlorobenzene	mg/kg	72 (49.1*)													
Pentachlorobenzene (PeCB)	mg/kg	770 (107*)													
Carbon Disulfide	mg/kg	22													
Hexachlorobutadiene	mg/kg	66													
2,4-Dinitrotoluene	mg/kg														
2,6-Dinitrotoluene	mg/kg														
2-Chloronaphthalene	mg/kg														
Biphenyl	mg/kg														
Bromobenzene	mg/kg														
Bromoform	mg/kg														
Chloroethane	mg/kg														
Chloromethane	mg/kg														
bis(2-Ethylhexyl) phthalate	mg/kg														
Butylbenzyl phthalate	mg/kg														
Diethyl phthalate	mg/kg														
n-Dibutyl phthalate	mg/kg														
n-Dioctyl phthalate	mg/kg														
Herbicides/Insecticides															
Aldrin	mg/kg	170													
Dieldrin	mg/kg	170													
Atrazine	mg/kg	9400													
Dichlorvos (DDVP)	mg/kg	140													
Alpha-Endosulfan	mg/kg	7400 (0.007)													
Beta-Endosulfan	mg/kg	7800 (0.0002)													
Alpha-Hexachlorocyclohexanes	mg/kg	180													
Beta-Hexachlorocyclohexanes	mg/kg	65													
Gamma-Hexachlorocyclohexanes	mg/kg	69													
1,2-Dichlorobenzene	mg/kg	4800 (1370*)													
1,3-Dichlorobenzene	mg/kg	73													
1,4-Dichlorobenzene	mg/kg	10000 (540)													
1,2,3-Trichlorobenzene	mg/kg	250													
1,2,4-Trichlorobenzene	mg/kg	530													
1,3,5-Trichlorobenzene	mg/kg	55													
Hexachlorobenzene	mg/kg	120													
Hexachloroethane	mg/kg														
Total CFC (for Haz)	mg/kg														
Moisture															
Moisture Content Ratio [% of as received sample]															
	%		15.4	17.5	18.5	15.3	19.7			15.2	18.2	21.6	18	16.3	14.8
PFOA/PFOS															
PFOA	mg/kg	0.6													
PFOS	mg/kg	0.6													
PFHxS	mg/kg	0.6													
PFNA	mg/kg	0.6													
Hazard Quotient	%	1													

Chemical	Method	LOD units	Suite No.	Generic Analysis - For locations not included in Suite 2.0 or where required													Farms (buildings/yards)	Fuel filling stations and garages	Electrical substations	Current and former works/industry		Current and historic railway land		STWs and Water Supply Works		Former military facility		Former hospital	Agricultural nursery building	Landfill sites / potentially infilled areas							
				1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11	1.12	1.13				2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8			2.9	2.10	2.11	2.12	2.13	2.14	2.15	2.16
			Suite Name	Made Ground	Made Ground + add. metals + inorganics	Natural	Barrier pipe (PE/Metal)	VOCs with TICs	SVOCs with TICs	Pesticides	Herbicides	PFAS (inc PFOA)	WAC (1-stage) inc solid suite	Core Logs (including PAK marker)	Tar analysis (PAH, phenol) - ADEPT 2019 method	Tar analysis Assessment - ADEPT 2019 method	Farms Standard	Farms Standard + VOCs +pesticides	Fuel filling & Garages	Electrical Substations	Works Standard	Works Standard + S/VOC+PCBs	General Railway land	Depots / Yards	STW Standard	STW/WSW + VOCs +PCBs	Standard	Standard + S/VOC+PCBs	Former Hospital	Agri. Nursery	Potentially infilled Land	BGS Made Ground / Landfill					
BTEX																																					
Benzene	GCMS	<0.05		x	x		x									x			x	x			x	x			x				x		x				
Toluene	GCMS	<0.05		x	x		x									x			x	x			x	x			x				x		x				
Ethylbenzene	GCMS	<0.05		x	x		x									x			x	x			x	x			x				x		x				
o-xylene	GCMS	<0.05		x	x		x									x			x	x			x	x			x				x		x				
m-xylene	GCMS	<0.05		x	x		x									x			x	x			x	x			x				x		x				
p-xylene	GCMS	<0.05		x	x		x									x			x	x			x	x			x				x		x				
Total BTEX	GCMS	<1.0		x	x		x									x			x	x			x	x			x				x		x				
MTBE				x	x		x									x			x	x			x	x			x				x		x				
PAH by GCMS																																					
PAH 17 (total and speciated incl coronene)	GCMS	<0.1		x	x											x	x	x		x	*		x	*	x	x	x	*	x	x	x	*	x		*		
PAK Marker (PAH indicator test)													x																								
PCBs																																					
PCB 7 Congeners (speciated and total)	GCMS	<0.001			x														x				x	x			x	x	x	x	x	x	x	x	x		
Petroleum Hydrocarbons																																					
TPHCWG	GC-FID / GCMS	<0.1			x		x										x	x	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x		
TPH >C6-C14 - with silica clean-up	GC-FID or GCMS	<1		x		x											x		x																		
TPHCWG (if over 1000 mg/kg)				x		o											o		o																		
TPH Identification (if over 1000 mg/kg)				o	o	o											o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
o - complete test if threshold reached.																																					
VOCs/Semi-VOCs																																					
Volatile Organic Compounds (VOCs) incl TICs	GCMS	<0.01						x									x	x				x	x			x	x								x		
Semi-volatile Organic Compounds (SVOC) incl TICs	GCMS	<0.01					x		x														x	x				x								x	
Pesticides / Herbicides																																					
Pesticides (organochlorine, organophosphate)	GC-MS	<0.001								x								x																	x	x	
Herbicides (Organonitrogen / triazine herbicides (to include Atrazine) and acid herbicides)	LC-MS	<0.1									x							x																		x	
Other																																					
Soil Organic Matter	Titration	<0.1%		x	x	x											x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Conductivity	Potentiometric	<10 µS/cm		x	x	x	x										x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Redox Potential		v		x	x	x	x										x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Moisture Content Ratio (% of as received sample)	Gravimetric	<0.1%		x	x	x											x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Waste Acceptance Criteria (1-stage) including solid suite	Various	Various		x	x							x					x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PFAS (to include PFOS and PFOA)	Lab to confirm	<0.001										x																								x	
Pathogens																																					
Total coliforms	Lab to confirm	TBC																																			x
E.coli	Lab to confirm	TBC																																			x
Faecal coliforms	Lab to confirm	TBC																																			x
Faecal streptococci	Lab to confirm	TBC																																			x
To be confirmed																																					
Radioisotopes - TBC site/PSC specific	TBC	TBC																																			x
Explosives TBC following UXO assessment	TBC	TBC																																			x
Road surfacing - Coal Tar																																					
Coal tar interpretation																																					x
Note - Ethylene glycol to be included in VOC TICs analysis.																																					
Request lab provides the result with the lowest LOD where chemicals are tested twice using different methods (e.g benzene in BTEX suite and VOC analysis.)																																					

Water and Leachate Suites	Analysis	LOD units	Suite No.	Suite 3.0 Generic Groundwater Analysis										Suite 4.0 - Potential Source of Contamination Groundwater Suites <i>(use add ons from Suite 3.0 if required in addition)</i>																
				Generic Analysis - For locations not included in Suite 4 or where required										Farms	Fuel filling stations & garages	Electrical substations	Current and former works/industry	Current and historic railway land	Sewage Treatment Works (STW)	Water Supply Works (WSW)	Former military facility	Former hospital	Agricultural nursery building (storage/buildings)	Landfill sites / potentially infilled areas						
				3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.10	4.11	4.12	4.13	4.14	4.15		
		$\mu\text{g/l}$ unless stated	Suite Name	Soil leachate preparation	Standard	Standard + add. metals + inorganics	TPH CWG	VOCs with TICs	SVOCs with TICs	Pesticides	Herbicides	PFAS (inc PFOS / PFOA)	Hydrogeo Suite	Farms	Fuel filling & Garages	Electrical Substations	Works Standard	Works Standard + S/VOC+PCBs	General Railway land	Depots / Yards	STW	WSW	Military Standard	Military Standard + inorg + S/VOC	Former Hospital	Agri. Nursery	Potentially infilled Land	BGS Made Ground / Landfill		
Metals (dissolved)																														
Arsenic	ICP-OES / MS	<5			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Cadmium	ICP-OES / MS	<0.01			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Chromium (trivalent)	ICP-OES / MS	<1			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Chromium, Hexavalent	Skalar CFA	<1			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Chromium (total)		<1											x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Selenium	ICP-OES / MS	<1			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Copper	ICP-OES / MS	<0.1			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Lead	ICP-OES / MS	<1			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Mercury	ICP-OES / MS	<0.05			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Nickel	ICP-OES / MS	<1			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Zinc	ICP-OES / MS	<5			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Boron, water soluble	ICP-OES / MS	<10			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Vanadium	ICP-OES / MS	<10																												
Antimony	ICP-OES / MS	1																												
Barium	ICP-OES / MS	500																												
Molybdenum	ICP-OES / MS	10				x																x	x							
Aluminium	ICP-OES / MS	10																				x	x							
Manganese	ICP-OES / MS	5				x																x	x							x
Iron	ICP-OES / MS	100				x																x	x							x
Inorganics																														
Sulphate	ICP-OES / MS	<10 mg/l			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Sulphide	Skalar CFA	<10 mg/l			x	x								x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Phosphorous (total and ortho)	TBC by lab	TBC				x																x	x							
Chloride	TBC by lab	<0.15 mg/l			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Cyanide, Free	Skalar CFA	<0.1			x	x																x	x							
Cyanide, Total	Skalar CFA	<0.1			x	x																x	x							
Thiocyanate	TBC by lab	TBC				x																x	x							
Ammonia	TBC by lab	<0.01 mg/l			x	x							x	x								x	x							
Nitrates, nitrites	TBC by lab	<1 mg/l			x	x							x	x								x	x							
Total Nitrogen	TBC by lab	TBC				x																x	x							
Ammoniacal Nitrogen	TBC by lab	<0.1				x																x	x							
Fluoride	TBC by lab	<1 mg/l			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Dissolved Methane	TBC by lab	TBC																												
pH	Potentiometric	+/- 0.1			x	x							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Calcium		<1 mg/l											x																	
Magnesium	ICP-OES / MS	<0.5 mg/l											x																	
Sodium		<1 mg/l											x																	
Potassium		<1 mg/l											x																	
Bicarbonate		<10 mg/l											x																	
Phenols																														
Total Phenols includes following Phenol, Resorcinol, Methylphenols (Cresols), Dimethylphenols (Xylenols), 1-Napthols, Trimeitylphenols.	HPLC	<0.1			x									x	x							x	x			x				
Total Speciated Phenols includes the following Phenol, Pentachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2-chlorophenol, 2-methylphenol, 2-nitrophenol, 4-chloro-3-methylphenol, 4-methylphenol	GCMS	<0.1				x																				x				

Appendix E: HazWasteOnline™ Reports

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)



E243V-ZTL5V-5YHDZ

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

Job name

Hampshire Water Transfer and Water Recycling Project (HWTWRP)[2]

Description/Comments

Waste classification of soils to be excavated for proposed pipeline. Boreholes 2E3000RC, 2E3001RC and 2E3002RC located in agricultural land.

Project

HWTWRP Phase 2 GIR

Site

Section E

Classified by

Name: **Jason Hoyte**
 Date: **29 Jan 2024 16:39 GMT**
 Telephone: **01494 557643**
 Company: **Stantec UK Ltd**
Buckingham Court
Frederick Place
High Wycombe
HP11 1JU

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	22 Nov 2019
Most recent 3 year Refresher	04 Oct 2022

Next 3 year Refresher due by Oct 2025

Purpose of classification

2 - Material Characterisation

Address of the waste

Intersection of New Down Lane and Portsdown Hill Road, Cosham, Waterlooville.

Post Code **PO17 6EW**

SIC for the process giving rise to the waste

42910 Construction of water projects

Description of industry/producer giving rise to the waste

Water industry

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

Excavation of trenches for pipeline installation.

Description of the waste

Topsoil is sandy gravelly CLAY with gravel of chert and chalk (all 0.15m samples). White chalk (all other samples).

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	2E3000RC	0.15	Non Hazardous		3
2	2E3000RC[2]	1.00	Non Hazardous		6
3	2E3000RC[3]	6.00	Non Hazardous		8
4	2E3001RC	0.15	Non Hazardous		11
5	2E3001RC[2]	1	Non Hazardous		14
6	2E3001RC[3]	3.07	Non Hazardous		16
7	2E3002RC	0.15	Non Hazardous		18
8	2E3002RC[2]	1	Non Hazardous		20
9	2E3002RC[3]	6.2	Non Hazardous		23

Related documents

#	Name	Description
1	GAC Tool Template v4	waste stream template used to create this Job

Report

Created by: Jason Hoyte

Created date: 29 Jan 2024 16:39 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	25
Appendix B: Rationale for selection of metal species	26
Appendix C: Version	27



Classification of sample: 2E3000RC

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

Sample details

Sample name:	LoW Code:	
2E3000RC	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)
0.15 m		
Moisture content:		
11.1%		
(no correction)		

Hazard properties

None identified

Determinands


Moisture content: 11.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				4.9	mg/kg	1.32	6.47	mg/kg	0.000647 %		
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				22.8	mg/kg	1.462	33.323	mg/kg	0.00333 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				27.4	mg/kg	1.126	30.849	mg/kg	0.00308 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	52.4	mg/kg	1.56	81.734	mg/kg	0.00524 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
9	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				80.8	mg/kg	2.774	224.151	mg/kg	0.0224 %		
10	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				2.2	mg/kg	3.22	7.084	mg/kg	0.000708 %		
11	pH PH				8.4	pH		8.4	pH	8.4 pH		
12	pentachlorophenol 604-002-00-8 201-778-6 87-86-5				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
13	benzene 601-020-00-8 200-753-7 71-43-2				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
14	toluene 601-021-00-3 203-625-9 108-88-3				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD
15	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.011	mg/kg		<0.011	mg/kg	<0.0000011 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.034 mg/kg		<0.034 mg/kg	<0.0000034 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]							
		203-396-5 [2]	106-42-3 [2]							
		203-576-3 [3]	108-38-3 [3]							
	215-535-7 [4]	1330-20-7 [4]								
17	naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
		205-912-4	206-44-0							
24	pyrene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
29	benzo[a]pyrene; benzo[def]chrysene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-883-8	191-24-2							
33	coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-881-7	191-07-1							
34	polychlorobiphenyls; PCB				<0.039 mg/kg		<0.039 mg/kg	<0.0000039 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
35	TPH (C6 to C40) petroleum group				101 mg/kg		101 mg/kg	0.0101 %		
			TPH							
36	aldrin (ISO)				<0.0022 mg/kg		<0.0022 mg/kg	<0.00000225 %		<LOD
	602-048-00-3	206-215-8	309-00-2							
37	dieldrin (ISO)				<0.0056 mg/kg		<0.0056 mg/kg	<0.00000562 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
38	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0022 mg/kg		<0.0022 mg/kg	<0.00000225 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
39	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0022 mg/kg		<0.0022 mg/kg	<0.00000225 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
40	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0128 mg/kg		<0.0128 mg/kg	<0.00000128 %		<LOD
	602-052-00-5	204-079-4	115-29-7							
41	hexachlorocyclohexanes, including lindane				<0.0056 mg/kg		<0.0056 mg/kg	<0.00000562 %		<LOD
	602-043-00-6	210-168-9, 200-401-2,	58-89-9, 319-84-6,							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		206-270-8, 206-271-3	319-85-7, 608-73-1							
42	•	1,2,3-trichlorobenzene			<0.0011 mg/kg		<0.0011 mg/kg	<0.00000112 %		<LOD
		201-757-1	87-61-6							
43		hexachlorobenzene			<0.0022 mg/kg		<0.0022 mg/kg	<0.00000225 %		<LOD
		602-065-00-6	204-273-9							
Total:								0.046 %		

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 No liquid phase present. Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0101%)

Classification of sample: 2E3000RC[2]

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

Sample details

Sample name:	LoW Code:
2E3000RC[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14.5%	
(no correction)	

Hazard properties


None identified

Determinands

Moisture content: **14.5% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide } 033-003-00-0	215-481-4	1327-53-3		4.3 mg/kg	1.32	5.677 mg/kg	0.000568 %		
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9		1308-38-9		11.7 mg/kg	1.462	17.1 mg/kg	0.00171 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X	215-270-7	1317-39-1		5.2 mg/kg	1.126	5.855 mg/kg	0.000585 %		
7	lead { lead chromate } 082-004-00-2	231-846-0	7758-97-6	1	4.7 mg/kg	1.56	7.331 mg/kg	0.00047 %		
8	mercury { mercury dichloride } 080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
9	zinc { zinc chromate } 024-007-00-3	236-878-9	13530-65-9		23.8 mg/kg	2.774	66.025 mg/kg	0.0066 %		
10	boron { diboron trioxide } 005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
11	pH		PH		9.1 pH		9.1 pH	9.1 pH		
12	TPH (C6 to C40) petroleum group		TPH		39.2 mg/kg		39.2 mg/kg	0.00392 %		
Total:								0.0143 %		

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 No liquid phase present. Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00392%)

Classification of sample: 2E3000RC[3]

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

Sample details

Sample name:	LoW Code:
2E3000RC[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
6.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				0.6 mg/kg	1.32	0.792 mg/kg	0.0000792 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				2.7 mg/kg	1.462	3.946 mg/kg	0.000395 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				1.7 mg/kg	1.126	1.914 mg/kg	0.000191 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	1.4 mg/kg	1.56	2.184 mg/kg	0.00014 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				16.1 mg/kg	2.774	44.664 mg/kg	0.00447 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.2 mg/kg	3.22	3.864 mg/kg	0.000386 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		9 pH		9 pH	9pH		
12	benzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
13	toluene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.038 mg/kg		<0.038 mg/kg	<0.0000038 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
16	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	phenanthrene 201-581-5	85-01-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluoranthene 205-912-4	206-44-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	pyrene 204-927-3	129-00-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	chrysene 601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	benzo[ghi]perylene 205-883-8	191-24-2			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	coronene 205-881-7	191-07-1			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.044 mg/kg		<0.044 mg/kg	<0.0000044 %		<LOD
34	TPH (C6 to C40) petroleum group TPH				73.4 mg/kg		73.4 mg/kg	0.00734 %		
Total:								0.0134 %		

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 No liquid phase present. Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00734%)



Classification of sample: 2E3001RC

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

Sample details

Sample name: 2E3001RC	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.15 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 13.9% (no correction)		

Hazard properties

None identified

Determinands

Moisture content: **13.9% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				6.4	mg/kg	1.32	8.45	mg/kg	0.000845 %		
	033-003-00-0	215-481-4	1327-53-3									
2	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									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.3	mg/kg	1.462	25.285	mg/kg	0.00253 %		
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.2	mg/kg	1.923	0.385	mg/kg	0.0000385 %		
	024-001-00-0	215-607-8	1333-82-0									
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8											
6	copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	18.014	mg/kg	0.0018 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	37.8	mg/kg	1.56	58.961	mg/kg	0.00378 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	zinc { zinc chromate }				74.3	mg/kg	2.774	206.119	mg/kg	0.0206 %		
	024-007-00-3	236-878-9	13530-65-9									
10	boron { diboron trioxide }				0.6	mg/kg	3.22	1.932	mg/kg	0.000193 %		
	005-008-00-8	215-125-8	1303-86-2									
11	pH				8.3	pH		8.3	pH	8.3 pH		
			PH									
12	pentachlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	604-002-00-8	201-778-6	87-86-5									
13	benzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
14	toluene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
15	ethylbenzene				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<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							
16	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.35 mg/kg		<0.35 mg/kg	<0.000035 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]							
		203-396-5 [2]	106-42-3 [2]							
		203-576-3 [3]	108-38-3 [3]							
	215-535-7 [4]	1330-20-7 [4]								
17	naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
18	acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-917-1	208-96-8							
19	acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-469-6	83-32-9							
20	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-695-5	86-73-7							
21	phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-581-5	85-01-8							
22	anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		204-371-1	120-12-7							
23	fluoranthene				0.19 mg/kg		0.19 mg/kg	0.000019 %		
		205-912-4	206-44-0							
24	pyrene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
		204-927-3	129-00-0							
25	benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
26	chrysene				0.15 mg/kg		0.15 mg/kg	0.000015 %		
	601-048-00-0	205-923-4	218-01-9							
27	benzo[b]fluoranthene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
	601-034-00-4	205-911-9	205-99-2							
28	benzo[k]fluoranthene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
	601-036-00-5	205-916-6	207-08-9							
29	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							
30	indeno[123-cd]pyrene				0.11 mg/kg		0.11 mg/kg	0.000011 %		
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				0.12 mg/kg		0.12 mg/kg	0.000012 %		
		205-883-8	191-24-2							
33	coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-881-7	191-07-1							
34	polychlorobiphenyls; PCB				<0.041 mg/kg		<0.041 mg/kg	<0.0000041 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
35	TPH (C6 to C40) petroleum group				55.4 mg/kg		55.4 mg/kg	0.00554 %		
			TPH							
36	aldrin (ISO)				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000232 %		<LOD
	602-048-00-3	206-215-8	309-00-2							
37	dieldrin (ISO)				<0.0058 mg/kg		<0.0058 mg/kg	<0.00000581 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
38	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000232 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
39	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000232 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
40	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0128 mg/kg		<0.0128 mg/kg	<0.00000128 %		<LOD
	602-052-00-5	204-079-4	115-29-7							
41	hexachlorocyclohexanes, including lindane				<0.0058 mg/kg		<0.0058 mg/kg	<0.0000058 %		<LOD
	602-043-00-6	210-168-9, 200-401-2,	58-89-9, 319-84-6,							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		206-270-8, 206-271-3	319-85-7, 608-73-1							
42	•	1,2,3-trichlorobenzene			<0.0011 mg/kg		<0.0011 mg/kg	<0.000001116 %		<LOD
		201-757-1	87-61-6							
43		hexachlorobenzene			<0.0023 mg/kg		<0.0023 mg/kg	<0.00000232 %		<LOD
		602-065-00-6	204-273-9							
			118-74-1							
Total:								0.0359 %		

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"

Force this Hazardous property to non hazardous because Hazardous limit used represents up to 0.1% of the waste. Concentration present is less than 0.01%

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00003%)

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 No liquid phase present. Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00554%)

Classification of sample: 2E3001RC[2]

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

Sample details

Sample name:	LoW Code:
2E3001RC[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.8%	
(no correction)	

Hazard properties


None identified

Determinands

Moisture content: **17.8% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				<0.3 mg/kg	1.32	<0.396 mg/kg	<0.0000396 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				1.8 mg/kg	1.462	2.631 mg/kg	0.000263 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				2.4 mg/kg	1.126	2.702 mg/kg	0.00027 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	2 mg/kg	1.56	3.12 mg/kg	0.0002 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		9 pH		9 pH	9pH		
12	TPH (C6 to C40) petroleum group		TPH		60.4 mg/kg		60.4 mg/kg	0.00604 %		
Total:								0.0117 %		

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 No liquid phase present. Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00604%)

Classification of sample: 2E3001RC[3]

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

Sample details

Sample name:	LoW Code:
2E3001RC[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.07 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16%	
(no correction)	

Hazard properties

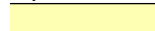



None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				1.3 mg/kg	1.32	1.716 mg/kg	0.000172 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				2.2 mg/kg	1.462	3.215 mg/kg	0.000322 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				9.5 mg/kg	1.126	10.696 mg/kg	0.00107 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	5.7 mg/kg	1.56	8.891 mg/kg	0.00057 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				60 mg/kg	2.774	166.449 mg/kg	0.0166 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				0.9 mg/kg	3.22	2.898 mg/kg	0.00029 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		9 pH		9 pH	9pH		
12	TPH (C6 to C40) petroleum group		TPH		<23.8 mg/kg		<23.8 mg/kg	<0.00238 %		<LOD
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

Classification of sample: 2E3002RC

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

Sample details

Sample name:	LoW Code:	
2E3002RC	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)
0.15 m		
Moisture content:		
14.6%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **14.6% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5 mg/kg	1.32	6.602 mg/kg	0.00066 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16.8 mg/kg	1.462	24.554 mg/kg	0.00246 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				20.7 mg/kg	1.126	23.306 mg/kg	0.00233 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	48.5 mg/kg	1.56	75.651 mg/kg	0.00485 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				82.8 mg/kg	2.774	229.699 mg/kg	0.023 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.5 mg/kg	3.22	4.83 mg/kg	0.000483 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.9 pH		7.9 pH	7.9 pH		
12	pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
13	TPH (C6 to C40) petroleum group		TPH		80.8 mg/kg		80.8 mg/kg	0.00808 %		
14	aldrin (ISO)				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000234 %		<LOD
	602-048-00-3	206-215-8	809-00-2							
15	dieldrin (ISO)				<0.0058 mg/kg		<0.0058 mg/kg	<0.00000585 %		<LOD
	602-049-00-9	200-484-5	60-57-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000234 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
17	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000234 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
18	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.0129 mg/kg		<0.0129 mg/kg	<0.00000129 %		<LOD
	602-052-00-5	204-079-4	115-29-7							
19	hexachlorocyclohexanes, including lindane				<0.0058 mg/kg		<0.0058 mg/kg	<0.00000585 %		<LOD
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
20	1,2,3-trichlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.00000117 %		<LOD
		201-757-1	87-61-6							
21	hexachlorobenzene				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000234 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
Total:								0.0421 %		

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
	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 No liquid phase present. Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00808%)

Classification of sample: 2E3002RC[2]

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

Sample details

Sample name:	LoW Code:	
2E3002RC[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:		
16.9%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **16.9% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				<0.3 mg/kg	1.32	<0.396 mg/kg	<0.0000396 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				11.3 mg/kg	1.462	16.516 mg/kg	0.00165 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				4.6 mg/kg	1.126	5.179 mg/kg	0.000518 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	3.3 mg/kg	1.56	5.147 mg/kg	0.00033 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.9 pH		8.9 pH	8.9 pH		
12	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
13	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
14	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
15	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.037 mg/kg		<0.037 mg/kg	<0.0000037 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
16	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	phenanthrene		201-581-5	85-01-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluoranthene		205-912-4	206-44-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	pyrene		204-927-3	129-00-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	benzo[ghi]perylene		205-883-8	191-24-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	coronene		205-881-7	191-07-1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3	<0.042 mg/kg		<0.042 mg/kg	<0.0000042 %		<LOD
34	TPH (C6 to C40) petroleum group			TPH	82.9 mg/kg		82.9 mg/kg	0.00829 %		
Total:								0.0158 %		

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 No liquid phase present. Hazardous limit used represents less than 1% of the waste.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00829%)



Classification of sample: 2E3002RC[3]

✔ Non Hazardous Waste

Classified as 17 05 04

in the List of Waste

Sample details

<p>Sample name: 2E3002RC[3]</p> <p>Sample Depth: 6.2 m</p> <p>Moisture content: 18.9% (no correction)</p>	<p>LoW Code: Chapter: Entry:</p>	<p>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands

Moisture content: **18.9% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				1.1	mg/kg	1.32	1.452	mg/kg	0.000145 %		
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				2.3	mg/kg	1.462	3.362	mg/kg	0.000336 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				6.8	mg/kg	1.126	7.656	mg/kg	0.000766 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	7.2	mg/kg	1.56	11.231	mg/kg	0.00072 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
9	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				26.4	mg/kg	2.774	73.237	mg/kg	0.00732 %		
10	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
11	pH PH				8.7	pH		8.7	pH	8.7 pH		
12	benzene 601-020-00-8 200-753-7 71-43-2				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
13	toluene 601-021-00-3 203-625-9 108-88-3				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
14	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.012	mg/kg		<0.012	mg/kg	<0.0000012 %		<LOD
15	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2]				<0.036	mg/kg		<0.036	mg/kg	<0.0000036 %		<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							
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
16	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	phenanthrene		201-581-5	85-01-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluoranthene		205-912-4	206-44-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	pyrene		204-927-3	129-00-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	benzo[ghi]perylene		205-883-8	191-24-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	coronene		205-881-7	191-07-1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3	<0.043 mg/kg		<0.043 mg/kg	<0.0000043 %		<LOD
34	TPH (C6 to C40) petroleum group			TPH	<24.7 mg/kg		<24.7 mg/kg	<0.00247 %		<LOD
Total:								0.0123 %		

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

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

- **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

- **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

▪ **coronene** (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.
Data source: <http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en>
Data source date: 16 Jun 2014
Hazard Statements: STOT SE 2; H371

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

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

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.

Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

▪ **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

▪ **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil.



copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight.

boron {diboron trioxide}

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

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2024.26.5938.10982 (26 Jan 2024)

HazWasteOnline Database: 2024.26.5938.10982 (26 Jan 2024)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

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

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)



QUTFU-UA3LK-GBG4Z

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

Job name

Water For Life - Havant Thicket - Section E Phase 3 GI

Description/Comments

Phase 3 GI was carried out between October 2023 and May 2024 by SOCOTEC UK Limited.

53 soil samples were collected along Section E by SOCOTEC during the Phase 3 GI.

Laboratory analysis was carried out by SOCOTEC Environmental Chemistry.

Project

Water for Life

Site

Section E

Classified by

Name: **Samuel Doyle**
 Date: **04 Nov 2024 15:28 GMT**
 Telephone: **07505455315**
 Company: **Stantec UK Ltd**
1st Floor, Vision Court
Caxton Place
Cardiff
CF23 8HA

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: Hazardous Waste Classification
Date: 08 Aug 2024

Next 3 year Refresher due by Aug 2027

Purpose of classification

2 - Material Characterisation

Address of the waste

N/A

Post Code N/A

SIC for the process giving rise to the waste

42910 Construction of water projects

Description of industry/producer giving rise to the waste

Water Industry

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

Waste created during excavation and installation of a pipeline largely through open cut excavation methods

Description of the waste

Exploratory hole locations encountered a mix of topsoil, made ground and natural soils

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	3E3020DS	0.1	Non Hazardous		4
2	3E3020DS[2]	0.5	Non Hazardous		7
3	3E3020DS[3]	1.5	Non Hazardous		10
4	3E3021DS	0.1	Non Hazardous		13
5	3E3021DS[2]	1	Non Hazardous		16
6	3E3021DS[3]	2.5	Non Hazardous		19
7	3E3022HP	0.1	Non Hazardous		22
8	3E3022HP[2]	0.9	Non Hazardous		24
9	3E3023TP	0.1	Non Hazardous		26
10	3E3023TP[2]	1	Non Hazardous		29
11	3E3028HP	0.1	Non Hazardous		32
12	3E3028HP[2]	1	Non Hazardous		34
13	3E3034HP	0.5	Non Hazardous		36
14	3E3034HP[2]	1	Non Hazardous		38
15	3E3035DS	0.1	Non Hazardous		40
16	3E3035DS[2]	1	Non Hazardous		43
17	3E3036DS[3]	2.5	Non Hazardous		46
18	3E3038HP	0.1	Non Hazardous		48
19	3E3038HP[2]	0.5	Non Hazardous		50
20	3E3100DS	0.1	Non Hazardous		52
21	3E3100DS[2]	1	Non Hazardous		55
22	3E3101TP	0.5	Non Hazardous		57
23	3E3102TP	0.1	Non Hazardous		60
24	3E3102TP[2]	0.9	Non Hazardous		63
25	3E3103HP	0.2	Non Hazardous		65
26	3E3103HP[2]	1	Non Hazardous		67
27	3E3104HP	0.2	Non Hazardous		69
28	3E3104HP[2]	1	Non Hazardous		71
29	3E3105HP	0.5	Non Hazardous		73
30	3E3105HP[2]	1	Non Hazardous		75
31	3E3106TP	0.1	Non Hazardous		77
32	3E3106TP[2]	0.5	Non Hazardous		80
33	3E3106TP[3]	1.2	Non Hazardous		83
34	3E3107HP	0.1	Non Hazardous		86
35	3E3107HP[2]	1	Non Hazardous		88
36	3E3108TP	0.1	Non Hazardous		90
37	3E3108TP[2]	1	Non Hazardous		93
38	3E3109HP	0.1	Non Hazardous		96
39	3E3109HP[2]	1	Non Hazardous		98
40	3E3110DS	0.5	Non Hazardous		100
41	3E3110DS[2]	1	Non Hazardous		103
42	3E3111HP	0.1	Non Hazardous		106
43	3E3111HP[2]	1	Non Hazardous		109
44	3E3112TP	0.1	Non Hazardous		111
45	3E3112TP[2]	1	Non Hazardous		114
46	3E3113HP	0.1	Non Hazardous		117
47	3E3113HP[2]	1	Non Hazardous		119
48	3E3115DS	0.5	Non Hazardous		121
49	3E3115DS[2]	1	Non Hazardous		124
50	3E3115DS[3]	3.7	Non Hazardous		127
51	3E3115DS[4]	4.6	Non Hazardous		130
52	3E3119HP	0.1	Non Hazardous		133
53	3E3119HP[2]	1	Non Hazardous		134

Related documents

#	Name	Description
1	GAC Tool Template v4	waste stream template used to create this Job

Report

Created by: Samuel Doyle

Created date: 04 Nov 2024 15:28 GMT



Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	135
Appendix B: Rationale for selection of metal species	136
Appendix C: Version	137

Classification of sample: 3E3020DS

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

Sample details

Sample name:	LoW Code:	
3E3020DS	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		
Moisture content:		
18.9%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 18.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				4.6 mg/kg	1.32	6.073 mg/kg	0.000607 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				1 mg/kg	1.142	1.142 mg/kg	0.000114 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13.8 mg/kg	1.462	20.169 mg/kg	0.00202 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				14.6 mg/kg	1.126	16.438 mg/kg	0.00164 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	28.4 mg/kg	1.56	44.299 mg/kg	0.00284 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				12.9 mg/kg	2.976	38.394 mg/kg	0.00384 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				66.7 mg/kg	2.774	185.036 mg/kg	0.0185 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				1.4 mg/kg	3.22	4.508 mg/kg	0.000451 %		
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	•	pH			9 pH		9 pH	9pH		
			PH							
15		phenol			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-001-00-2	203-632-7							
16		pentachlorophenol			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-002-00-8	201-778-6							
17		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]							
			108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
18		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]							
			95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
19		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7							
20		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9							
21	•	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4							
22		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5							
23	•	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1							
24	•	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6							
25	•	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5							
26	•	phenanthrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5							
27	•	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1							
28	•	fluoranthene			0.16 mg/kg		0.16 mg/kg	0.000016 %		
			205-912-4							
29	•	pyrene			0.15 mg/kg		0.15 mg/kg	0.000015 %		
			204-927-3							
30		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6							
31		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4							
32		benzo[b]fluoranthene			0.11 mg/kg		0.11 mg/kg	0.000011 %		
		601-034-00-4	205-911-9							
33		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6							
34		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5							
35	•	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2							
36		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8							
37	•	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8							
			191-24-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	coronene	205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
39	TPH (C6 to C40) petroleum group		TPH		39 mg/kg		39 mg/kg	0.0039 %		
40	pentachlorobenzene	602-074-00-5	210-172-0	608-93-5	<0.0012 mg/kg		<0.0012 mg/kg	<0.00000123 %		<LOD
41	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.025 mg/kg		<0.025 mg/kg	<0.0000025 %		<LOD
42	aldrin (ISO)	602-048-00-3	206-215-8	309-00-2	<0.0024 mg/kg		<0.0024 mg/kg	<0.00000247 %		<LOD
43	dieldrin (ISO)	602-049-00-9	200-484-5	60-57-1	<0.0061 mg/kg		<0.0061 mg/kg	<0.00000617 %		<LOD
44	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine	613-068-00-7	217-617-8	1912-24-9	<0.0024 mg/kg		<0.0024 mg/kg	<0.00000247 %		<LOD
45	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.0024 mg/kg		<0.0024 mg/kg	<0.00000247 %		<LOD
46	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite	602-052-00-5	204-079-4	115-29-7	0.0135 mg/kg		0.0135 mg/kg	0.00000135 %		
47	hexachlorocyclohexanes, including lindane	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1	0.0061 mg/kg		0.0061 mg/kg	0.00000617 %		
48	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane	602-043-00-6	200-401-2	58-89-9	<0.0012 mg/kg		<0.0012 mg/kg	<0.00000123 %		<LOD
49	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.0012 mg/kg		<0.0012 mg/kg	<0.00000123 %		<LOD
50	hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	<0.0024 mg/kg		<0.0024 mg/kg	<0.00000247 %		<LOD
Total:								0.0444 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0039%)

Classification of sample: 3E3020DS[2]

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

Sample details

Sample name:	LoW Code:	
3E3020DS[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		
Moisture content:		
18.4%		
(no correction)		

Hazard properties

None identified

Determinands


Moisture content: 18.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				0.6 mg/kg	1.32	0.792 mg/kg	0.0000792 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				4 mg/kg	1.462	5.846 mg/kg	0.000585 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				3 mg/kg	1.126	3.378 mg/kg	0.000338 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	5.1 mg/kg	1.56	7.955 mg/kg	0.00051 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				5 mg/kg	2.976	14.881 mg/kg	0.00149 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				23.1 mg/kg	2.774	64.083 mg/kg	0.00641 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH		PH		9.4 pH		9.4 pH	9.4 pH		
15	phenol	604-001-00-2	203-632-7	108-95-2	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
18	benzene	601-020-00-8	200-753-7	71-43-2	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
19	toluene	601-021-00-3	203-625-9	108-88-3	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
20	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
21	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	phenanthrene		201-581-5	85-01-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	fluoranthene		205-912-4	206-44-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	pyrene		204-927-3	129-00-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
36	benzo[ghi]perylene		205-883-8	191-24-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
37	coronene		205-881-7	191-07-1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				35.2 mg/kg		35.2 mg/kg	0.00352 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.025 mg/kg		<0.025 mg/kg	<0.0000025 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00352%)

Classification of sample: 3E3020DS[3]

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

Sample details

Sample name:	LoW Code:	
3E3020DS[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)
1.5 m		
Moisture content:		
16.8%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **16.8% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				<0.3 mg/kg	1.32	<0.396 mg/kg	<0.0000396 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				<1.2 mg/kg	1.462	<1.754 mg/kg	<0.000175 %		<LOD
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				<1.6 mg/kg	1.126	<1.801 mg/kg	<0.00018 %		<LOD
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	0.9 mg/kg	1.56	1.404 mg/kg	0.00009 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				2.3 mg/kg	2.976	6.845 mg/kg	0.000685 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	•	pH			9.6 pH		9.6 pH	9.6 pH		
			PH							
15		phenol			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-001-00-2	203-632-7	108-95-2						
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
17		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
18		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
19		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
20	•	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
21		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
22	•	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8						
23	•	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9						
24	•	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7						
25	•	phenanthrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8						
26	•	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7						
27	•	fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0						
28	•	pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0						
29		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3						
30		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9						
31		benzo[b]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2						
32		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9						
33		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8						
34	•	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5						
35		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3						
36	•	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2						
37	•	coronene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				80 mg/kg		80 mg/kg	0.008 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0243 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.008%)

Classification of sample: 3E3021DS

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

Sample details

Sample name:	LoW Code:	
3E3021DS	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		
Moisture content:		
15.3%		
(no correction)		

Hazard properties

None identified

Determinands


Moisture content: 15.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				7.1	mg/kg	1.32	9.374	mg/kg	0.000937 %		
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				21.7	mg/kg	1.462	31.716	mg/kg	0.00317 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				14.1	mg/kg	1.126	15.875	mg/kg	0.00159 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	34.2	mg/kg	1.56	53.346	mg/kg	0.00342 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
9	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				17	mg/kg	2.976	50.597	mg/kg	0.00506 %		
10	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				64.9	mg/kg	2.774	180.042	mg/kg	0.018 %		
11	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<LOD
13	asbestos 650-013-00-6 ----- 12001-28-4 132207-32-0 12172-73-5				<100	mg/kg		<100	mg/kg	<0.01 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	● pH		PH		8 pH		8 pH	8pH		
15	● phenol	604-001-00-2	203-632-7		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
16	● m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
17	● 3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
18	● benzene	601-020-00-8	200-753-7		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
19	● toluene	601-021-00-3	203-625-9		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
20	● ethylbenzene	601-023-00-4	202-849-4		<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
21	● naphthalene	601-052-00-2	202-049-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
22	● acenaphthylene		205-917-1		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
23	● acenaphthene		201-469-6		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
24	● fluorene		201-695-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
25	● phenanthrene		201-581-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
26	● anthracene		204-371-1		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
27	● fluoranthene		205-912-4		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
28	● pyrene		204-927-3		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
29	● benzo[a]anthracene	601-033-00-9	200-280-6		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
30	● chrysene	601-048-00-0	205-923-4		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
31	● benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
32	● benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
33	● benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
34	● indeno[123-cd]pyrene		205-893-2		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
35	● dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
36	● benzo[ghi]perylene		205-883-8		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
37	● coronene		205-881-7		<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<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							
38	TPH (C6 to C40) petroleum group				41 mg/kg		41 mg/kg	0.0041 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.047 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: 3E3021DS[2]

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

Sample details

Sample name:	LoW Code:
3E3021DS[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:	
22.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 22.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.9 mg/kg	1.32	11.751 mg/kg	0.00118 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				1.8 mg/kg	1.142	2.056 mg/kg	0.000206 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				31.7 mg/kg	1.462	46.331 mg/kg	0.00463 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				10.4 mg/kg	1.126	11.709 mg/kg	0.00117 %		
	029-002-00-X	215-270-7	1317-39-1							
7	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							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				27.6 mg/kg	2.976	82.145 mg/kg	0.00821 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				64.3 mg/kg	2.774	178.378 mg/kg	0.0178 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				8.3 pH		8.3 pH	8.3 pH		
15	phenol				<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.13 mg/kg		<0.13 mg/kg	<0.000013 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<25.7 mg/kg		<25.7 mg/kg	<0.00257 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.026 mg/kg		<0.026 mg/kg	<0.0000026 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0478 %		

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: 3E3021DS[3]

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

Sample details

Sample name:	LoW Code:	
3E3021DS[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)
2.5 m		
Moisture content:		
18.6%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 18.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				<0.3 mg/kg	1.32	<0.396 mg/kg	<0.0000396 %		<LOD
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				2.5 mg/kg	1.462	3.654 mg/kg	0.000365 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				1.7 mg/kg	1.126	1.914 mg/kg	0.000191 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	1.5 mg/kg	1.56	2.34 mg/kg	0.00015 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
9	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				6.2 mg/kg	2.976	18.453 mg/kg	0.00185 %		
10	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
11	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
13	asbestos 650-013-00-6 ----- 12001-28-4 132207-32-0 12172-73-5				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				9 pH		9 pH	9pH		
			PH							
15	phenol				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<24.6 mg/kg		<24.6 mg/kg	<0.00246 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.025 mg/kg		<0.025 mg/kg	<0.0000025 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0202 %		

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: 3E3022HP

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

Sample details

Sample name:	LoW Code:	
3E3022HP	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		
Moisture content:		
15.7%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: 15.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.7 mg/kg	1.32	8.846 mg/kg	0.000885 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19.8 mg/kg	1.462	28.939 mg/kg	0.00289 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				17.1 mg/kg	1.126	19.253 mg/kg	0.00193 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	28.8 mg/kg	1.56	44.923 mg/kg	0.00288 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				84.3 mg/kg	2.774	233.861 mg/kg	0.0234 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				2.6 mg/kg	3.22	8.372 mg/kg	0.000837 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.6 pH		7.6 pH	7.6 pH		
12	TPH (C6 to C40) petroleum group		TPH		40 mg/kg		40 mg/kg	0.004 %		
Total:								0.0371 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.004%)

Classification of sample: 3E3022HP[2]

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

Sample details

Sample name:	LoW Code:
3E3022HP[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)
0.9 m	
Moisture content:	
15.9%	
(no correction)	

Hazard properties

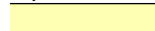



None identified

Determinands

Moisture content: 15.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.2 mg/kg	1.32	9.506 mg/kg	0.000951 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20.7 mg/kg	1.462	30.254 mg/kg	0.00303 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				18.4 mg/kg	1.126	20.716 mg/kg	0.00207 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	29.5 mg/kg	1.56	46.015 mg/kg	0.00295 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				86.7 mg/kg	2.774	240.519 mg/kg	0.0241 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				2.2 mg/kg	3.22	7.084 mg/kg	0.000708 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8.5 pH		8.5 pH	8.5 pH		
12	TPH (C6 to C40) petroleum group		TPH		<23.8 mg/kg		<23.8 mg/kg	<0.00238 %		<LOD
Total:								0.0364 %		

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: 3E3023TP

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

Sample details

Sample name:	LoW Code:	
3E3023TP	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		
Moisture content:		
15.1%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **15.1% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.5 mg/kg	1.32	11.223 mg/kg	0.00112 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21.2 mg/kg	1.462	30.985 mg/kg	0.0031 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				26.5 mg/kg	1.126	29.836 mg/kg	0.00298 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	23.2 mg/kg	1.56	36.188 mg/kg	0.00232 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				14.4 mg/kg	2.976	42.858 mg/kg	0.00429 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				47.7 mg/kg	2.774	132.327 mg/kg	0.0132 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	●	pH			8.1 pH		8.1 pH	8.1 pH		
			PH							
15		phenol			0.17 mg/kg		0.17 mg/kg	0.000017 %		
		604-001-00-2	203-632-7	108-95-2						
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
17		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
18		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
19		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
20	●	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
21		naphthalene			<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
22	●	acenaphthylene			<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			205-917-1	208-96-8						
23	●	acenaphthene			<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			201-469-6	83-32-9						
24	●	fluorene			<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<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			<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			204-371-1	120-12-7						
27	●	fluoranthene			0.63 mg/kg		0.63 mg/kg	0.000063 %		
			205-912-4	206-44-0						
28	●	pyrene			0.6 mg/kg		0.6 mg/kg	0.00006 %		
			204-927-3	129-00-0						
29		benzo[a]anthracene			0.26 mg/kg		0.26 mg/kg	0.000026 %		
		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			0.3 mg/kg		0.3 mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2						
32		benzo[k]fluoranthene			0.25 mg/kg		0.25 mg/kg	0.000025 %		
		601-036-00-5	205-916-6	207-08-9						
33		benzo[a]pyrene; benzo[def]chrysene			0.31 mg/kg		0.31 mg/kg	0.000031 %		
		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			0.1 mg/kg		0.1 mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3						
36	●	benzo[ghi]perylene			0.24 mg/kg		0.24 mg/kg	0.000024 %		
			205-883-8	191-24-2						
37	●	coronene			<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
			205-881-7	191-07-1						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				51.6 mg/kg		51.6 mg/kg	0.00516 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0432 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00516%)

Classification of sample: 3E3023TP[2]

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

Sample details

Sample name:	LoW Code:	
3E3023TP[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:		
15.5%		
(no correction)		

Hazard properties

None identified

Determinands


Moisture content: 15.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				8.4 mg/kg	1.32	11.091 mg/kg	0.00111 %		
2	cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				24.6 mg/kg	1.462	35.954 mg/kg	0.0036 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				18.5 mg/kg	1.126	20.829 mg/kg	0.00208 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	12.7 mg/kg	1.56	19.81 mg/kg	0.00127 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
9	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				16.4 mg/kg	2.976	48.811 mg/kg	0.00488 %		
10	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				35.8 mg/kg	2.774	99.314 mg/kg	0.00993 %		
11	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
13	asbestos 650-013-00-6 ----- 12001-28-4 132207-32-0 12172-73-5				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH		PH		8.3 pH		8.3 pH	8.3 pH		
15	phenol	604-001-00-2	203-632-7	108-95-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	benzene	601-020-00-8	200-753-7	71-43-2	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
19	toluene	601-021-00-3	203-625-9	108-88-3	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
20	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
21	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
22	acenaphthylene		205-917-1	208-96-8	<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
23	acenaphthene		201-469-6	83-32-9	<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
24	fluorene		201-695-5	86-73-7	<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
25	phenanthrene		201-581-5	85-01-8	0.27 mg/kg		0.27 mg/kg	0.000027 %		
26	anthracene		204-371-1	120-12-7	0.12 mg/kg		0.12 mg/kg	0.000012 %		
27	fluoranthene		205-912-4	206-44-0	1.17 mg/kg		1.17 mg/kg	0.000117 %		
28	pyrene		204-927-3	129-00-0	1.07 mg/kg		1.07 mg/kg	0.000107 %		
29	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.47 mg/kg		0.47 mg/kg	0.000047 %		
30	chrysene	601-048-00-0	205-923-4	218-01-9	0.48 mg/kg		0.48 mg/kg	0.000048 %		
31	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.62 mg/kg		0.62 mg/kg	0.000062 %		
32	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.38 mg/kg		0.38 mg/kg	0.000038 %		
33	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.59 mg/kg		0.59 mg/kg	0.000059 %		
34	indeno[123-cd]pyrene		205-893-2	193-39-5	0.36 mg/kg		0.36 mg/kg	0.000036 %		
35	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.15 mg/kg		0.15 mg/kg	0.000015 %		
36	benzo[ghi]perylene		205-883-8	191-24-2	0.45 mg/kg		0.45 mg/kg	0.000045 %		
37	coronene		205-881-7	191-07-1	0.12 mg/kg		0.12 mg/kg	0.000012 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				220 mg/kg		220 mg/kg	0.022 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.056 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.022%)

Classification of sample: 3E3028HP

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

Sample details

Sample name:	LoW Code:	
3E3028HP	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		
Moisture content:		
17.5%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: 17.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5.2 mg/kg	1.32	6.866 mg/kg	0.000687 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				1 mg/kg	1.142	1.142 mg/kg	0.000114 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15.9 mg/kg	1.462	23.239 mg/kg	0.00232 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				9 mg/kg	1.126	10.133 mg/kg	0.00101 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	12.8 mg/kg	1.56	19.966 mg/kg	0.00128 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				66.1 mg/kg	2.774	183.371 mg/kg	0.0183 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.4 mg/kg	3.22	4.508 mg/kg	0.000451 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		7.8 pH		7.8 pH	7.8 pH		
12	TPH (C6 to C40) petroleum group		TPH		46.4 mg/kg		46.4 mg/kg	0.00464 %		
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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00464%)

Classification of sample: 3E3028HP[2]

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

Sample details

Sample name:	LoW Code:
3E3028HP[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:	
18.7%	
(no correction)	

Hazard properties

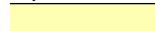



None identified

Determinands

Moisture content: 18.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				0.3 mg/kg	1.32	0.396 mg/kg	0.0000396 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				1.2 mg/kg	1.462	1.754 mg/kg	0.000175 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				1.6 mg/kg	1.126	1.801 mg/kg	0.00018 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	1.3 mg/kg	1.56	2.028 mg/kg	0.00013 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8.8 pH		8.8 pH	8.8 pH		
12	TPH (C6 to C40) petroleum group		TPH		<24.6 mg/kg		<24.6 mg/kg	<0.00246 %		<LOD
Total:								0.0078 %		

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: 3E3034HP

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

Sample details

Sample name:	LoW Code:	
3E3034HP	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:		
12.2%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: **12.2% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.4 mg/kg	1.32	9.77 mg/kg	0.000977 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23.3 mg/kg	1.462	34.054 mg/kg	0.00341 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				17.3 mg/kg	1.126	19.478 mg/kg	0.00195 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	26.8 mg/kg	1.56	41.803 mg/kg	0.00268 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				108.5 mg/kg	2.774	300.995 mg/kg	0.0301 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.3 mg/kg	3.22	4.186 mg/kg	0.000419 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8.2 pH		8.2 pH	8.2 pH		
12	TPH (C6 to C40) petroleum group		TPH		29.8 mg/kg		29.8 mg/kg	0.00298 %		
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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00298%)

Classification of sample: 3E3034HP[2]

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

Sample details

Sample name:	LoW Code:
3E3034HP[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18%	
(no correction)	

Hazard properties


None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5.3 mg/kg	1.32	6.998 mg/kg	0.0007 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				1 mg/kg	1.142	1.142 mg/kg	0.000114 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.3 mg/kg	1.462	25.285 mg/kg	0.00253 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				12.9 mg/kg	1.126	14.524 mg/kg	0.00145 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	15.9 mg/kg	1.56	24.801 mg/kg	0.00159 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				82.5 mg/kg	2.774	228.867 mg/kg	0.0229 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				0.9 mg/kg	3.22	2.898 mg/kg	0.00029 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8.2 pH		8.2 pH	8.2 pH		
12	TPH (C6 to C40) petroleum group		TPH		27.2 mg/kg		27.2 mg/kg	0.00272 %		
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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00272%)

Classification of sample: 3E3035DS

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

Sample details

Sample name:	LoW Code:	
3E3035DS	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		
Moisture content:		
19.4%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 19.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.3 mg/kg	1.32	9.638 mg/kg	0.000964 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				44.1 mg/kg	1.142	50.377 mg/kg	0.00504 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16.6 mg/kg	1.462	24.262 mg/kg	0.00243 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				13.8 mg/kg	1.126	15.537 mg/kg	0.00155 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	19.3 mg/kg	1.56	30.104 mg/kg	0.00193 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				1.6 mg/kg	1.353	2.166 mg/kg	0.000217 %		
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				14.4 mg/kg	2.976	42.858 mg/kg	0.00429 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				48.9 mg/kg	2.774	135.656 mg/kg	0.0136 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %		
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	●	pH			8.1 pH		8.1 pH	8.1 pH		
			PH							
15		phenol			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-001-00-2	203-632-7	108-95-2						
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
17		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
18		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
19		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
20	●	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
21		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
22	●	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8						
23	●	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9						
24	●	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7						
25	●	phenanthrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8						
26	●	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7						
27	●	fluoranthene			0.1 mg/kg		0.1 mg/kg	0.00001 %		
			205-912-4	206-44-0						
28	●	pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0						
29		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3						
30		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9						
31		benzo[b]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2						
32		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9						
33		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8						
34	●	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5						
35		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3						
36	●	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2						
37	●	coronene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				34 mg/kg		34 mg/kg	0.0034 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.025 mg/kg		<0.025 mg/kg	<0.0000025 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0034%)

Classification of sample: 3E3035DS[2]

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

Sample details

Sample name:	LoW Code:	
3E3035DS[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:		
15.9%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 15.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				0.7 mg/kg	1.32	0.924 mg/kg	0.0000924 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				3.3 mg/kg	1.462	4.823 mg/kg	0.000482 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				5.3 mg/kg	1.126	5.967 mg/kg	0.000597 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	2.4 mg/kg	1.56	3.744 mg/kg	0.00024 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				4.5 mg/kg	2.976	13.393 mg/kg	0.00134 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				17.8 mg/kg	2.774	49.38 mg/kg	0.00494 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				8.6 pH		8.6 pH	8.6 pH		
			PH							
15	phenol				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<23.8 mg/kg		<23.8 mg/kg	<0.00238 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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

Classification of sample: 3E3036DS[3]

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

Sample details

Sample name:	LoW Code:	
3E3036DS[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)
2.5 m		
Moisture content:		
17.4%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: 17.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				0.7 mg/kg	1.32	0.924 mg/kg	0.0000924 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				<1.2 mg/kg	1.462	<1.754 mg/kg	<0.000175 %		<LOD
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				<1.6 mg/kg	1.126	<1.801 mg/kg	<0.00018 %		<LOD
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	1 mg/kg	1.56	1.56 mg/kg	0.0001 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8.3 pH		8.3 pH	8.3 pH		
12	TPH (C6 to C40) petroleum group		TPH		40.2 mg/kg		40.2 mg/kg	0.00402 %		
Total:								0.0094 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00402%)

Classification of sample: 3E3038HP

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

Sample details

Sample name:	LoW Code:	
3E3038HP	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		
Moisture content:		
17.2%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: 17.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.4 mg/kg	1.32	11.091 mg/kg	0.00111 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21.8 mg/kg	1.462	31.862 mg/kg	0.00319 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				14.9 mg/kg	1.126	16.776 mg/kg	0.00168 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	36.8 mg/kg	1.56	57.401 mg/kg	0.00368 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				71.3 mg/kg	2.774	197.797 mg/kg	0.0198 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		6.1 pH		6.1 pH	6.1 pH		
12	TPH (C6 to C40) petroleum group		TPH		43.4 mg/kg		43.4 mg/kg	0.00434 %		
							Total:	0.0343 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00434%)

Classification of sample: 3E3038HP[2]

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

Sample details

Sample name:	LoW Code:
3E3038HP[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	
Moisture content:	
14.8%	
(no correction)	

Hazard properties


None identified

Determinands

Moisture content: 14.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				1 mg/kg	1.32	1.32 mg/kg	0.000132 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				4.3 mg/kg	1.462	6.285 mg/kg	0.000628 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				2.5 mg/kg	1.126	2.815 mg/kg	0.000281 %		
	029-002-00-X	215-270-7	1317-39-1							
7	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							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				21.5 mg/kg	2.774	59.644 mg/kg	0.00596 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		5.9 pH		5.9 pH	5.9 pH		
12	TPH (C6 to C40) petroleum group		TPH		44.3 mg/kg		44.3 mg/kg	0.00443 %		
Total:								0.0123 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00443%)

Classification of sample: 3E3100DS

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

Sample details

Sample name:	LoW Code:	
3E3100DS	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		
Moisture content:		
17.6%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 17.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21.6 mg/kg	1.462	31.57 mg/kg	0.00316 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				17.1 mg/kg	1.126	19.253 mg/kg	0.00193 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	39.3 mg/kg	1.56	61.301 mg/kg	0.00393 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				20.4 mg/kg	2.976	60.716 mg/kg	0.00607 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				98.7 mg/kg	2.774	273.808 mg/kg	0.0274 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				3.6 mg/kg	3.22	11.592 mg/kg	0.00116 %		
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	•	pH			7.5 pH		7.5 pH	7.5 pH		
			PH							
15		phenol			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-001-00-2	203-632-7	108-95-2						
16		pentachlorophenol			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-002-00-8	201-778-6	87-86-5						
17		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
18		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
19		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
20		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
21	•	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
22		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
23	•	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8						
24	•	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9						
25	•	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7						
26	•	phenanthrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8						
27	•	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7						
28	•	fluoranthene			0.13 mg/kg		0.13 mg/kg	0.000013 %		
			205-912-4	206-44-0						
29	•	pyrene			0.13 mg/kg		0.13 mg/kg	0.000013 %		
			204-927-3	129-00-0						
30		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3						
31		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9						
32		benzo[b]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2						
33		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9						
34		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8						
35	•	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5						
36		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3						
37	•	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	coronene	205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
39	TPH (C6 to C40) petroleum group		TPH		<24.3 mg/kg		<24.3 mg/kg	<0.00243 %		<LOD
40	pentachlorobenzene	602-074-00-5	210-172-0	608-93-5	<0.0012 mg/kg		<0.0012 mg/kg	<0.00000121 %		<LOD
41	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
42	aldrin (ISO)	602-048-00-3	206-215-8	309-00-2	<0.0024 mg/kg		<0.0024 mg/kg	<0.00000243 %		<LOD
43	dieldrin (ISO)	602-049-00-9	200-484-5	60-57-1	<0.006 mg/kg		<0.006 mg/kg	<0.00000607 %		<LOD
44	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine	613-068-00-7	217-617-8	1912-24-9	<0.0024 mg/kg		<0.0024 mg/kg	<0.00000243 %		<LOD
45	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.0024 mg/kg		<0.0024 mg/kg	<0.00000243 %		<LOD
46	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite	602-052-00-5	204-079-4	115-29-7	0.0133 mg/kg		0.0133 mg/kg	0.00000133 %		
47	hexachlorocyclohexanes, including lindane	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1	0.006 mg/kg		0.006 mg/kg	0.00000607 %		
48	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane	602-043-00-6	200-401-2	58-89-9	<0.0012 mg/kg		<0.0012 mg/kg	<0.00000121 %		<LOD
49	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.0012 mg/kg		<0.0012 mg/kg	<0.00000121 %		<LOD
50	hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	<0.0024 mg/kg		<0.0024 mg/kg	<0.00000243 %		<LOD
Total:								0.058 %		

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: 3E3100DS[2]

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

Sample details

Sample name:	LoW Code:	
3E3100DS[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:		
16.4%		
(no correction)		

Hazard properties





None identified

Determinands

Moisture content: 16.4% No Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				0.6 mg/kg	1.32	0.792 mg/kg	0.0000792 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				2.3 mg/kg	1.462	3.362 mg/kg	0.000336 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				1.8 mg/kg	1.126	2.027 mg/kg	0.000203 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	2.2 mg/kg	1.56	3.432 mg/kg	0.00022 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				2.5 mg/kg	3.22	8.05 mg/kg	0.000805 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH				9.4 pH		9.4 pH	9.4 pH		
			PH							
12	TPH (C6 to C40) petroleum group				<23.9 mg/kg		<23.9 mg/kg	<0.00239 %		<LOD
			TPH							
Total:								0.00869 %		

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: 3E3101TP

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

Sample details

Sample name:	LoW Code:	
3E3101TP	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:		
15.5%		
(no correction)		

Hazard properties

None identified

Determinands


Moisture content: 15.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				2.5	mg/kg	1.32	3.301	mg/kg	0.00033 %		
	033-003-00-0	215-481-4	1327-53-3									
2	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									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				6.5	mg/kg	1.462	9.5	mg/kg	0.00095 %		
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8											
6	copper { dicopper oxide; copper (I) oxide }				3.4	mg/kg	1.126	3.828	mg/kg	0.000383 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	6.3	mg/kg	1.56	9.827	mg/kg	0.00063 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				6.9	mg/kg	2.976	20.536	mg/kg	0.00205 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc chromate }				23.1	mg/kg	2.774	64.083	mg/kg	0.00641 %		
	024-007-00-3	236-878-9	13530-65-9									
11	boron { diboron trioxide }				<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<LOD
	006-007-00-5											
13	asbestos				<100	mg/kg		<100	mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				8.2 pH		8.2 pH	8.2 pH		
			PH							
15	phenol				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<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 %		<LOD
	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 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<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 %		<LOD
		205-883-8	191-24-2							
37	coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				29 mg/kg		29 mg/kg	0.0029 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

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: 3E3102TP

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

Sample details

Sample name:	LoW Code:	
3E3102TP	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		
Moisture content:		
21.8%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **21.8% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				9.9 mg/kg	1.32	13.071 mg/kg	0.00131 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	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							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				21.6 mg/kg	1.126	24.319 mg/kg	0.00243 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	56.7 mg/kg	1.56	88.442 mg/kg	0.00567 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				17.5 mg/kg	2.976	52.085 mg/kg	0.00521 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				69.6 mg/kg	2.774	193.081 mg/kg	0.0193 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				0.9 mg/kg	3.22	2.898 mg/kg	0.00029 %		
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14			pH		7.4 pH		7.4 pH	7.4 pH		
15	604-001-00-2	203-632-7	108-95-2		0.52 mg/kg		0.52 mg/kg	0.000052 %		
16	604-002-00-8	201-778-6	87-86-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
18	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
19	601-020-00-8	200-753-7	71-43-2		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
20	601-021-00-3	203-625-9	108-88-3		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
21	601-023-00-4	202-849-4	100-41-4		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
22	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28		205-912-4	206-44-0		0.14 mg/kg		0.14 mg/kg	0.000014 %		
29		204-927-3	129-00-0		0.13 mg/kg		0.13 mg/kg	0.000013 %		
30	601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35		205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
36	601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
37		205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	coronene	205-881-7	191-07-1		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
39	TPH (C6 to C40) petroleum group		TPH		329 mg/kg		329 mg/kg	0.0329 %		
40	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.026 mg/kg		<0.026 mg/kg	<0.0000026 %		<LOD
41	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine	613-068-00-7	217-617-8	1912-24-9	<0.0025 mg/kg		<0.0025 mg/kg	<0.000000256 %		<LOD
Total:								0.0807 %		

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 for cumulative determinand results below the threshold of: **1000 mg/kg (0.1%)**

because: **No free phase product encountered**

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0329%)

Classification of sample: 3E3102TP[2]

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

Sample details

Sample name:	LoW Code:	
3E3102TP[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)
0.9 m		
Moisture content:		
15.5%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: 15.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10.2	mg/kg	1.32	13.467	mg/kg	0.00135 %		
	033-003-00-0	215-481-4	1327-53-3									
2	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									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26.8	mg/kg	1.462	39.17	mg/kg	0.00392 %		
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8											
6	copper { dicopper oxide; copper (I) oxide }				12.5	mg/kg	1.126	14.074	mg/kg	0.00141 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	15.1	mg/kg	1.56	23.553	mg/kg	0.00151 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	zinc { zinc chromate }				52.8	mg/kg	2.774	146.475	mg/kg	0.0146 %		
	024-007-00-3	236-878-9	13530-65-9									
10	boron { diboron trioxide }				<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
11	pH				8	pH		8	pH	8pH		
			PH									
12	TPH (C6 to C40) petroleum group				30.1	mg/kg		30.1	mg/kg	0.00301 %		
			TPH									
Total:										0.0262 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00301%)

Classification of sample: 3E3103HP

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

Sample details

Sample name:	LoW Code:	
3E3103HP	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		
Moisture content:		
14%		
(no correction)		

Hazard properties





None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.7 mg/kg	1.32	11.487 mg/kg	0.00115 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.4 mg/kg	1.142	0.457 mg/kg	0.0000457 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16.6 mg/kg	1.462	24.262 mg/kg	0.00243 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8 mg/kg	1.126	9.007 mg/kg	0.000901 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	14.7 mg/kg	1.56	22.929 mg/kg	0.00147 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				35.3 mg/kg	2.774	97.927 mg/kg	0.00979 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				2.7 mg/kg	3.22	8.694 mg/kg	0.000869 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.5 pH		8.5 pH	8.5 pH		
			PH							
12	TPH (C6 to C40) petroleum group				<23.3 mg/kg		<23.3 mg/kg	<0.00233 %		<LOD
			TPH							
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: 3E3103HP[2]

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

Sample details

Sample name:	LoW Code:	
3E3103HP[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:		
13.4%		
(no correction)		

Hazard properties





None identified

Determinands

Moisture content: 13.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				8.1	mg/kg	1.32	10.695	mg/kg	0.00107 %		
	033-003-00-0	215-481-4	1327-53-3									
2	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									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23.4	mg/kg	1.462	34.2	mg/kg	0.00342 %		
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
	034-002-00-8											
6	copper { dicopper oxide; copper (I) oxide }				30.3	mg/kg	1.126	34.114	mg/kg	0.00341 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	6.7	mg/kg	1.56	10.451	mg/kg	0.00067 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	zinc { zinc chromate }				27.8	mg/kg	2.774	77.121	mg/kg	0.00771 %		
	024-007-00-3	236-878-9	13530-65-9									
10	boron { diboron trioxide }				1.4	mg/kg	3.22	4.508	mg/kg	0.000451 %		
	005-008-00-8	215-125-8	1303-86-2									
11	pH				8.1	pH		8.1	pH	8.1 pH		
			PH									
12	TPH (C6 to C40) petroleum group				<23.1	mg/kg		<23.1	mg/kg	<0.00231 %		<LOD
			TPH									
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: 3E3104HP

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

Sample details

Sample name:	LoW Code:	
3E3104HP	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		
Moisture content:		
15.9%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 15.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7 mg/kg	1.32	9.242 mg/kg	0.000924 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19.8 mg/kg	1.462	28.939 mg/kg	0.00289 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				10.5 mg/kg	1.126	11.822 mg/kg	0.00118 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	15.4 mg/kg	1.56	24.021 mg/kg	0.00154 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				50.7 mg/kg	2.774	140.649 mg/kg	0.0141 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				2.1 mg/kg	3.22	6.762 mg/kg	0.000676 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.5 pH		8.5 pH	8.5 pH		
			PH							
12	pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
13	TPH (C6 to C40) petroleum group				33.5 mg/kg		33.5 mg/kg	0.00335 %		
			TPH							
14	pentachlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.000000119 %		<LOD
	602-074-00-5	210-172-0	608-93-5							
15	aldrin (ISO)				<0.0023 mg/kg		<0.0023 mg/kg	<0.000000238 %		<LOD
	602-048-00-3	206-215-8	309-00-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	dieldrin (ISO)				<0.0059 mg/kg		<0.0059 mg/kg	<0.00000595 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
17	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000238 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
18	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000238 %		<LOD
	015-019-00-X	200-547-7	62-73-7							
19	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				0.0131 mg/kg		0.0131 mg/kg	0.00000131 %		
	602-052-00-5	204-079-4	115-29-7							
20	hexachlorocyclohexanes, including lindane				0.0059 mg/kg		0.0059 mg/kg	0.00000595 %		
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
21	lindane (ISO); g-HCH or g-BHC; g-1,2,3,4,5,6-hexachlorocyclohexane				<0.0011 mg/kg		<0.0011 mg/kg	<0.00000119 %		<LOD
	602-043-00-6	200-401-2	58-89-9							
22	1,2,3-trichlorobenzene				<0.0011 mg/kg		<0.0011 mg/kg	<0.00000119 %		<LOD
		201-757-1	87-61-6							
23	hexachlorobenzene				<0.0023 mg/kg		<0.0023 mg/kg	<0.00000238 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00335%)

Classification of sample: 3E3104HP[2]

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

Sample details

Sample name:	LoW Code:	
3E3104HP[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:		
12.7%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: 12.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3.4 mg/kg	1.32	4.489 mg/kg	0.000449 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21.8 mg/kg	1.462	31.862 mg/kg	0.00319 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	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							
7	lead { lead chromate }			1	13.3 mg/kg	1.56	20.746 mg/kg	0.00133 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				55.8 mg/kg	2.774	154.797 mg/kg	0.0155 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.7 mg/kg	3.22	5.474 mg/kg	0.000547 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.2 pH		8.2 pH	8.2 pH		
			PH							
12	TPH (C6 to C40) petroleum group				33.8 mg/kg		33.8 mg/kg	0.00338 %		
			TPH							
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

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00338%)

Classification of sample: 3E3105HP

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

Sample details

Sample name:	LoW Code:	
3E3105HP	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:		
16.2%		
(no correction)		

Hazard properties





None identified

Determinands

Moisture content: 16.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.6 mg/kg	1.32	11.355 mg/kg	0.00114 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27.2 mg/kg	1.462	39.754 mg/kg	0.00398 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	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							
7	lead { lead chromate }			1	13.7 mg/kg	1.56	21.369 mg/kg	0.00137 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				51.2 mg/kg	2.774	142.036 mg/kg	0.0142 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.7 mg/kg	3.22	5.474 mg/kg	0.000547 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.3 pH		8.3 pH	8.3 pH		
			PH							
12	TPH (C6 to C40) petroleum group				<23.9 mg/kg		<23.9 mg/kg	<0.00239 %		<LOD
			TPH							
Total:								0.0251 %		

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: 3E3105HP[2]

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

Sample details

Sample name:	LoW Code:	
3E3105HP[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:		
17.4%		
(no correction)		

Hazard properties





None identified

Determinands

Moisture content: 17.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.9 mg/kg	1.32	9.11 mg/kg	0.000911 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0							
3	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							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				17.4 mg/kg	1.126	19.59 mg/kg	0.00196 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	16.1 mg/kg	1.56	25.113 mg/kg	0.00161 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				40.6 mg/kg	2.774	112.63 mg/kg	0.0113 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.4 mg/kg	3.22	4.508 mg/kg	0.000451 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.3 pH		8.3 pH	8.3 pH		
			PH							
12	TPH (C6 to C40) petroleum group				<24.2 mg/kg		<24.2 mg/kg	<0.00242 %		<LOD
			TPH							
Total:								0.0233 %		

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: 3E3106TP

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

Sample details

Sample name:	LoW Code:	
3E3106TP	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		
Moisture content:		
16.8%		
(no correction)		

Hazard properties

None identified

Determinands


Moisture content: 16.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				9.3 mg/kg	1.32	12.279 mg/kg	0.00123 %		
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				22.5 mg/kg	1.462	32.885 mg/kg	0.00329 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	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 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	43.4 mg/kg	1.56	67.696 mg/kg	0.00434 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
9	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				20.7 mg/kg	2.976	61.609 mg/kg	0.00616 %		
10	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				75.8 mg/kg	2.774	210.28 mg/kg	0.021 %		
11	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %		
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
13	asbestos 650-013-00-6 ----- 12001-28-4 132207-32-0 12172-73-5				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH		PH		7.9 pH		7.9 pH	7.9 pH		
15	phenol				0.14 mg/kg		0.14 mg/kg	0.000014 %		
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				36.6 mg/kg		36.6 mg/kg	0.00366 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0523 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00366%)

Classification of sample: 3E3106TP[2]

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

Sample details

Sample name:	LoW Code:	
3E3106TP[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		
Moisture content:		
17.8%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 17.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.4 mg/kg	1.32	8.45 mg/kg	0.000845 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23.8 mg/kg	1.462	34.785 mg/kg	0.00348 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8.5 mg/kg	1.126	9.57 mg/kg	0.000957 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	13.2 mg/kg	1.56	20.59 mg/kg	0.00132 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				20.1 mg/kg	2.976	59.823 mg/kg	0.00598 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				68.2 mg/kg	2.774	189.197 mg/kg	0.0189 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %		
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	●	pH			8.2 pH		8.2 pH	8.2 pH		
			PH							
15		phenol			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-001-00-2	203-632-7	108-95-2						
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
17		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
18		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
19		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
20	●	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
21		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
22	●	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8						
23	●	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9						
24	●	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7						
25	●	phenanthrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8						
26	●	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7						
27	●	fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0						
28	●	pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0						
29		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3						
30		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9						
31		benzo[b]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2						
32		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9						
33		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8						
34	●	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5						
35		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3						
36	●	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2						
37	●	coronene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<24.3 mg/kg		<24.3 mg/kg	<0.00243 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0447 %		

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: 3E3106TP[3]

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

Sample details

Sample name:	LoW Code:	
3E3106TP[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)
1.2 m		
Moisture content:		
16.5% (no correction)		

Hazard properties

None identified

Determinands

Moisture content: 16.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				0.8 mg/kg	1.32	1.056 mg/kg	0.000106 %		
2	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 %		
3	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 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				3.3 mg/kg	1.126	3.715 mg/kg	0.000372 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	2.8 mg/kg	1.56	4.367 mg/kg	0.00028 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
9	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				7.5 mg/kg	2.976	22.322 mg/kg	0.00223 %		
10	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				26.2 mg/kg	2.774	72.683 mg/kg	0.00727 %		
11	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
13	asbestos 650-013-00-6 ----- 12001-28-4 132207-32-0 12172-73-5				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH		PH		8.8 pH		8.8 pH	8.8 pH		
15	phenol	604-001-00-2	203-632-7	108-95-2	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
17	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
18	benzene	601-020-00-8	200-753-7	71-43-2	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
19	toluene	601-021-00-3	203-625-9	108-88-3	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
20	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
21	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	phenanthrene		201-581-5	85-01-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	fluoranthene		205-912-4	206-44-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	pyrene		204-927-3	129-00-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
36	benzo[ghi]perylene		205-883-8	191-24-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
37	coronene		205-881-7	191-07-1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<24 mg/kg		<24 mg/kg	<0.0024 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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: 3E3107HP

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

Sample details

Sample name:	LoW Code:	
3E3107HP	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		
Moisture content:		
20.2%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: 20.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.8 mg/kg	1.32	8.978 mg/kg	0.000898 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.6 mg/kg	1.462	25.723 mg/kg	0.00257 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				19.7 mg/kg	1.126	22.18 mg/kg	0.00222 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	48.4 mg/kg	1.56	75.495 mg/kg	0.00484 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				100.8 mg/kg	2.774	279.634 mg/kg	0.028 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.3 mg/kg	3.22	4.186 mg/kg	0.000419 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8.8 pH		8.8 pH	8.8 pH		
12	TPH (C6 to C40) petroleum group		TPH		46.3 mg/kg		46.3 mg/kg	0.00463 %		
Total:								0.0439 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00463%)

Classification of sample: 3E3107HP[2]

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

Sample details

Sample name:	LoW Code:
3E3107HP[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:	
14.6%	
(no correction)	

Hazard properties


None identified

Determinands

Moisture content: 14.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3.1 mg/kg	1.32	4.093 mg/kg	0.000409 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				9.3 mg/kg	1.462	13.592 mg/kg	0.00136 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				4.9 mg/kg	1.126	5.517 mg/kg	0.000552 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	7.6 mg/kg	1.56	11.855 mg/kg	0.00076 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				36.9 mg/kg	2.774	102.366 mg/kg	0.0102 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		9.2 pH		9.2 pH	9.2 pH		
12	TPH (C6 to C40) petroleum group		TPH		41 mg/kg		41 mg/kg	0.0041 %		
Total:								0.0178 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: 3E3108TP

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

Sample details

Sample name:	LoW Code:	
3E3108TP	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		
Moisture content:		
22.4%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 22.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				4.3 mg/kg	1.32	5.677 mg/kg	0.000568 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				8.2 mg/kg	1.462	11.985 mg/kg	0.0012 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				16.4 mg/kg	1.126	18.465 mg/kg	0.00185 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	13.6 mg/kg	1.56	21.213 mg/kg	0.00136 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				8.9 mg/kg	2.976	26.489 mg/kg	0.00265 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				48.5 mg/kg	2.774	134.546 mg/kg	0.0135 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	●	pH			8.2 pH		8.2 pH	8.2 pH		
			PH							
15		phenol			<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-001-00-2	203-632-7	108-95-2						
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
17		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
18		benzene			<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
19		toluene			<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
20	●	ethylbenzene			<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
21		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
22	●	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8						
23	●	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9						
24	●	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7						
25	●	phenanthrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8						
26	●	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7						
27	●	fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0						
28	●	pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0						
29		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3						
30		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9						
31		benzo[b]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2						
32		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9						
33		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8						
34	●	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5						
35		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3						
36	●	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2						
37	●	coronene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				36 mg/kg		36 mg/kg	0.0036 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.026 mg/kg		<0.026 mg/kg	<0.0000026 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0354 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0036%)

Classification of sample: 3E3108TP[2]

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

Sample details

Sample name:	LoW Code:	
3E3108TP[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:		
15.2%		
(no correction)		

Hazard properties

None identified

Determinands


Moisture content: 15.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				1.2 mg/kg	1.32	1.584 mg/kg	0.000158 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				2.2 mg/kg	1.462	3.215 mg/kg	0.000322 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				9.6 mg/kg	1.126	10.809 mg/kg	0.00108 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	1.7 mg/kg	1.56	2.652 mg/kg	0.00017 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				3.9 mg/kg	2.976	11.607 mg/kg	0.00116 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				18.1 mg/kg	2.774	50.212 mg/kg	0.00502 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				9 pH		9 pH	9pH		
			PH							
15	phenol				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<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 %		<LOD
	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 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<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 %		<LOD
		205-883-8	191-24-2							
37	coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				31.2 mg/kg		31.2 mg/kg	0.00312 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00312%)

Classification of sample: 3E3109HP

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

Sample details

Sample name:	LoW Code:	
3E3109HP	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		
Moisture content:		
14.2%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: **14.2% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				79.3 mg/kg	1.32	104.702 mg/kg	0.0105 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17.9 mg/kg	1.462	26.162 mg/kg	0.00262 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				10.5 mg/kg	1.126	11.822 mg/kg	0.00118 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	11.5 mg/kg	1.56	17.938 mg/kg	0.00115 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				111.2 mg/kg	2.774	308.485 mg/kg	0.0308 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				1.1 mg/kg	3.22	3.542 mg/kg	0.000354 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8.1 pH		8.1 pH	8.1 pH		
12	TPH (C6 to C40) petroleum group		TPH		25.5 mg/kg		25.5 mg/kg	0.00255 %		
Total:								0.0494 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00255%)

Classification of sample: 3E3109HP[2]

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

Sample details

Sample name:	LoW Code:
3E3109HP[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:	
18.9%	
(no correction)	

Hazard properties

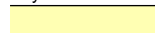



None identified

Determinands

Moisture content: 18.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				<0.3 mg/kg	1.32	<0.396 mg/kg	<0.0000396 %		<LOD
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				1.9 mg/kg	1.462	2.777 mg/kg	0.000278 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				<1.6 mg/kg	1.126	<1.801 mg/kg	<0.00018 %		<LOD
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	1.6 mg/kg	1.56	2.496 mg/kg	0.00016 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				19.5 mg/kg	2.774	54.096 mg/kg	0.00541 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH		PH		8.7 pH		8.7 pH	8.7 pH		
12	TPH (C6 to C40) petroleum group		TPH		<24.7 mg/kg		<24.7 mg/kg	<0.00247 %		<LOD
Total:								0.00892 %		

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: 3E3110DS

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

Sample details

Sample name:	LoW Code:	
3E3110DS	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:		
16.8%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **16.8% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3.7 mg/kg	1.32	4.885 mg/kg	0.000489 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14.2 mg/kg	1.462	20.754 mg/kg	0.00208 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8.1 mg/kg	1.126	9.12 mg/kg	0.000912 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	11.4 mg/kg	1.56	17.782 mg/kg	0.00114 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				13.7 mg/kg	2.976	40.775 mg/kg	0.00408 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				48.3 mg/kg	2.774	133.991 mg/kg	0.0134 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %		
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	●	pH			8.8 pH		8.8 pH	8.8 pH		
			PH							
15		phenol			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-001-00-2	203-632-7	108-95-2						
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
17		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
18		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
19		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
20	●	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
21		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
22	●	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8						
23	●	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9						
24	●	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7						
25	●	phenanthrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8						
26	●	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7						
27	●	fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0						
28	●	pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0						
29		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3						
30		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9						
31		benzo[b]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2						
32		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9						
33		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8						
34	●	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5						
35		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3						
36	●	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2						
37	●	coronene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<24 mg/kg		<24 mg/kg	<0.0024 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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



Classification of sample: 3E3110DS[2]

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

Sample details

Sample name:	LoW Code:	
3E3110DS[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:		
18%		
(no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				0.6	mg/kg	1.32	0.792	mg/kg	0.0000792 %		
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				4.2	mg/kg	1.462	6.139	mg/kg	0.000614 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				2.2	mg/kg	1.126	2.477	mg/kg	0.000248 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	2.4	mg/kg	1.56	3.744	mg/kg	0.00024 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
9	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				6.6	mg/kg	2.976	19.643	mg/kg	0.00196 %		
10	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				<16	mg/kg	2.774	<44.386	mg/kg	<0.00444 %		<LOD
11	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<LOD
13	asbestos 650-013-00-6 ----- 12001-28-4 132207-32-0 12172-73-5				<100	mg/kg		<100	mg/kg	<0.01 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH		PH		8.6 pH		8.6 pH	8.6 pH		
15	phenol	604-001-00-2	203-632-7	108-95-2	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
18	benzene	601-020-00-8	200-753-7	71-43-2	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
19	toluene	601-021-00-3	203-625-9	108-88-3	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
20	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
21	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	phenanthrene		201-581-5	85-01-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	fluoranthene		205-912-4	206-44-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	pyrene		204-927-3	129-00-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	indeno[123-cd]pyrene		205-893-2	193-39-5	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
36	benzo[ghi]perylene		205-883-8	191-24-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
37	coronene		205-881-7	191-07-1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<24.4 mg/kg		<24.4 mg/kg	<0.00244 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0207 %		

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: 3E3111HP

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

Sample details

Sample name:	LoW Code:	
3E3111HP	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		
Moisture content:		
15.1%		
(no correction)		

Hazard properties

None identified


Determinands

Moisture content: **15.1% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				9.4 mg/kg	1.32	12.411 mg/kg	0.00124 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20.8 mg/kg	1.462	30.4 mg/kg	0.00304 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				15.8 mg/kg	1.126	17.789 mg/kg	0.00178 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	27.5 mg/kg	1.56	42.895 mg/kg	0.00275 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				19.1 mg/kg	2.976	56.847 mg/kg	0.00568 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				83.4 mg/kg	2.774	231.364 mg/kg	0.0231 %		
	024-007-00-3	236-878-9	13530-65-9							
11	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
12	pH				7.9 pH		7.9 pH	7.9 pH		
			PH							
13	phenol				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-001-00-2	203-632-7	108-95-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
15	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
16	benzene 601-020-00-8 200-753-7 71-43-2				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
17	toluene 601-021-00-3 203-625-9 108-88-3				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
18	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
19	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
20	acenaphthylene 205-917-1 208-96-8				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
21	acenaphthene 201-469-6 83-32-9				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
22	fluorene 201-695-5 86-73-7				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
23	phenanthrene 201-581-5 85-01-8				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
24	anthracene 204-371-1 120-12-7				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
25	fluoranthene 205-912-4 206-44-0				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
26	pyrene 204-927-3 129-00-0				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
27	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
28	chrysene 601-048-00-0 205-923-4 218-01-9				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
29	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
30	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
32	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
33	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
34	benzo[ghi]perylene 205-883-8 191-24-2				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
35	coronene 205-881-7 191-07-1				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
36	TPH (C6 to C40) petroleum group TPH				38.7 mg/kg		38.7 mg/kg	0.00387 %		
37	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
Total:								0.052 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00387%)

Classification of sample: 3E3111HP[2]

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

Sample details

Sample name:	LoW Code:	
3E3111HP[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:		
15.4%		
(no correction)		

Hazard properties





None identified

Determinands

Moisture content: 15.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				36.3 mg/kg	1.32	47.928 mg/kg	0.00479 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20.4 mg/kg	1.462	29.816 mg/kg	0.00298 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				11.9 mg/kg	1.126	13.398 mg/kg	0.00134 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	11.6 mg/kg	1.56	18.094 mg/kg	0.00116 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				83.7 mg/kg	2.774	232.196 mg/kg	0.0232 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.1 pH		8.1 pH	8.1 pH		
			PH							
12	TPH (C6 to C40) petroleum group				<23.6 mg/kg		<23.6 mg/kg	<0.00236 %		<LOD
			TPH							
Total:								0.0363 %		

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: 3E3112TP

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

Sample details

Sample name:	LoW Code:	
3E3112TP	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		
Moisture content:		
17.5%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 17.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				4.9 mg/kg	1.32	6.47 mg/kg	0.000647 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13.6 mg/kg	1.462	19.877 mg/kg	0.00199 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				23.6 mg/kg	1.126	26.571 mg/kg	0.00266 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	26.1 mg/kg	1.56	40.711 mg/kg	0.00261 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				41.2 mg/kg	2.976	122.622 mg/kg	0.0123 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				59.8 mg/kg	2.774	165.894 mg/kg	0.0166 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	• pH		PH		9 pH		9 pH	9pH		
15	• phenol	604-001-00-2	203-632-7	108-95-2	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
16	• m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
17	• 3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
18	• benzene	601-020-00-8	200-753-7	71-43-2	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
19	• toluene	601-021-00-3	203-625-9	108-88-3	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
20	• ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
21	• naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	• acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	• acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	• fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	• phenanthrene		201-581-5	85-01-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	• anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	• fluoranthene		205-912-4	206-44-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	• pyrene		204-927-3	129-00-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	• benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	• chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	• benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	• benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	• benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	• indeno[123-cd]pyrene		205-893-2	193-39-5	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35	• dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
36	• benzo[ghi]perylene		205-883-8	191-24-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
37	• coronene		205-881-7	191-07-1	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				38.7 mg/kg		38.7 mg/kg	0.00387 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0514 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00387%)

Classification of sample: 3E3112TP[2]

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

Sample details

Sample name:	LoW Code:	
3E3112TP[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:		
18.5%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 18.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2 mg/kg	1.32	2.641 mg/kg	0.000264 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				2.8 mg/kg	1.462	4.092 mg/kg	0.000409 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				8.5 mg/kg	1.126	9.57 mg/kg	0.000957 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	4.2 mg/kg	1.56	6.551 mg/kg	0.00042 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				17.8 mg/kg	2.976	52.978 mg/kg	0.0053 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				27.1 mg/kg	2.774	75.179 mg/kg	0.00752 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	●	pH			9.5 pH		9.5 pH	9.5 pH		
			PH							
15		phenol			<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-001-00-2	203-632-7	108-95-2						
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
17		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
18		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
19		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
20	●	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
21		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
22	●	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8						
23	●	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9						
24	●	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7						
25	●	phenanthrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8						
26	●	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7						
27	●	fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0						
28	●	pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0						
29		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3						
30		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9						
31		benzo[b]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2						
32		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9						
33		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8						
34	●	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5						
35		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3						
36	●	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2						
37	●	coronene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<24.5 mg/kg		<24.5 mg/kg	<0.00245 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.025 mg/kg		<0.025 mg/kg	<0.0000025 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.028 %		

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: 3E3113HP

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

Sample details

Sample name:	LoW Code:	
3E3113HP	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		
Moisture content:		
15.3%		
(no correction)		

Hazard properties


None identified

Determinands

Moisture content: 15.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5.6 mg/kg	1.32	7.394 mg/kg	0.000739 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14.9 mg/kg	1.462	21.777 mg/kg	0.00218 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				11.2 mg/kg	1.126	12.61 mg/kg	0.00126 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	18.3 mg/kg	1.56	28.545 mg/kg	0.00183 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				58.3 mg/kg	2.774	161.733 mg/kg	0.0162 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				0.9 mg/kg	3.22	2.898 mg/kg	0.00029 %		
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.2 pH		8.2 pH	8.2 pH		
			PH							
12	TPH (C6 to C40) petroleum group				42.2 mg/kg		42.2 mg/kg	0.00422 %		
			TPH							
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

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00422%)

Classification of sample: 3E3113HP[2]

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

Sample details

Sample name:	LoW Code:	
3E3113HP[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:		
19.7%		
(no correction)		

Hazard properties





None identified

Determinands

Moisture content: 19.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				0.3 mg/kg	1.32	0.396 mg/kg	0.0000396 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				1.3 mg/kg	1.462	1.9 mg/kg	0.00019 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				10.4 mg/kg	1.126	11.709 mg/kg	0.00117 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	1.2 mg/kg	1.56	1.872 mg/kg	0.00012 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				<16 mg/kg	2.774	<44.386 mg/kg	<0.00444 %		<LOD
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	pH				8.7 pH		8.7 pH	8.7 pH		
			PH							
12	TPH (C6 to C40) petroleum group				<24.9 mg/kg		<24.9 mg/kg	<0.00249 %		<LOD
			TPH							
Total:								0.0088 %		

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: 3E3115DS

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

Sample details

Sample name:	LoW Code:	
3E3115DS	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:		
15.2%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 15.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				6.7	mg/kg	1.32	8.846	mg/kg	0.000885 %		
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				14.9	mg/kg	1.462	21.777	mg/kg	0.00218 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5	mg/kg	1.405	<0.703	mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				11.2	mg/kg	1.126	12.61	mg/kg	0.00126 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	65.2	mg/kg	1.56	101.7	mg/kg	0.00652 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
9	nickel { nickel chromate } 028-035-00-7 238-766-5 14721-18-7				12.5	mg/kg	2.976	37.203	mg/kg	0.00372 %		
10	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				121.8	mg/kg	2.774	337.891	mg/kg	0.0338 %		
11	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				0.6	mg/kg	3.22	1.932	mg/kg	0.000193 %		
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.6	mg/kg	1.884	<1.13	mg/kg	<0.000113 %		<LOD
13	asbestos 650-013-00-6 ----- 12001-28-4 132207-32-0 12172-73-5				<100	mg/kg		<100	mg/kg	<0.01 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				8.4 pH		8.4 pH	8.4 pH		
			PH							
15	phenol				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				0.76 mg/kg		0.76 mg/kg	0.000076 %		
		201-581-5	85-01-8							
26	anthracene				0.23 mg/kg		0.23 mg/kg	0.000023 %		
		204-371-1	120-12-7							
27	fluoranthene				1.7 mg/kg		1.7 mg/kg	0.00017 %		
		205-912-4	206-44-0							
28	pyrene				1.41 mg/kg		1.41 mg/kg	0.000141 %		
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.8 mg/kg		0.8 mg/kg	0.00008 %		
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.85 mg/kg		0.85 mg/kg	0.000085 %		
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.78 mg/kg		0.78 mg/kg	0.000078 %		
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				0.33 mg/kg		0.33 mg/kg	0.000033 %		
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.61 mg/kg		0.61 mg/kg	0.000061 %		
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.38 mg/kg		0.38 mg/kg	0.000038 %		
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
	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	coronene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %		<LOD
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				78.7 mg/kg		78.7 mg/kg	0.00787 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0677 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00787%)

Classification of sample: 3E3115DS[2]

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

Sample details

Sample name:	LoW Code:	
3E3115DS[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:		
18.2%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **18.2% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				1.6 mg/kg	1.32	2.113 mg/kg	0.000211 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				3.2 mg/kg	1.462	4.677 mg/kg	0.000468 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				2.2 mg/kg	1.126	2.477 mg/kg	0.000248 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	3.6 mg/kg	1.56	5.615 mg/kg	0.00036 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				6.1 mg/kg	2.976	18.155 mg/kg	0.00182 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				18.8 mg/kg	2.774	52.154 mg/kg	0.00522 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	●	pH			8.7 pH		8.7 pH	8.7 pH		
			PH							
15		phenol			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-001-00-2	203-632-7	108-95-2						
16		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]						
17		3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]			<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]						
18		benzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-020-00-8	200-753-7	71-43-2						
19		toluene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-021-00-3	203-625-9	108-88-3						
20	●	ethylbenzene			<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
		601-023-00-4	202-849-4	100-41-4						
21		naphthalene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3						
22	●	acenaphthylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8						
23	●	acenaphthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9						
24	●	fluorene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7						
25	●	phenanthrene			0.1 mg/kg		0.1 mg/kg	0.00001 %		
			201-581-5	85-01-8						
26	●	anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<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			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0						
29		benzo[a]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3						
30		chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9						
31		benzo[b]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2						
32		benzo[k]fluoranthene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9						
33		benzo[a]pyrene; benzo[def]chrysene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8						
34	●	indeno[123-cd]pyrene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5						
35		dibenz[a,h]anthracene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3						
36	●	benzo[ghi]perylene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2						
37	●	coronene			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-881-7	191-07-1						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<24.4 mg/kg		<24.4 mg/kg	<0.00244 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
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: 3E3115DS[3]

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

Sample details

Sample name:	LoW Code:	
3E3115DS[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)
3.7 m		
Moisture content:		
21.6%		
(no correction)		

Hazard properties

None identified

Determinands


Moisture content: 21.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				9.8 mg/kg	1.32	12.939 mg/kg	0.00129 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	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							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				7.9 mg/kg	1.126	8.895 mg/kg	0.000889 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	15.6 mg/kg	1.56	24.333 mg/kg	0.00156 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				13.4 mg/kg	2.976	39.882 mg/kg	0.00399 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				44.1 mg/kg	2.774	122.34 mg/kg	0.0122 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				7.1 pH		7.1 pH	7.1 pH		
			PH							
15	phenol				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				0.33 mg/kg		0.33 mg/kg	0.000033 %		
		201-469-6	83-32-9							
24	fluorene				0.25 mg/kg		0.25 mg/kg	0.000025 %		
		201-695-5	86-73-7							
25	phenanthrene				2.09 mg/kg		2.09 mg/kg	0.000209 %		
		201-581-5	85-01-8							
26	anthracene				0.52 mg/kg		0.52 mg/kg	0.000052 %		
		204-371-1	120-12-7							
27	fluoranthene				3 mg/kg		3 mg/kg	0.0003 %		
		205-912-4	206-44-0							
28	pyrene				2.34 mg/kg		2.34 mg/kg	0.000234 %		
		204-927-3	129-00-0							
29	benzo[a]anthracene				1.2 mg/kg		1.2 mg/kg	0.00012 %		
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				1.17 mg/kg		1.17 mg/kg	0.000117 %		
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				1.17 mg/kg		1.17 mg/kg	0.000117 %		
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				0.46 mg/kg		0.46 mg/kg	0.000046 %		
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.98 mg/kg		0.98 mg/kg	0.000098 %		
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.64 mg/kg		0.64 mg/kg	0.000064 %		
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				0.13 mg/kg		0.13 mg/kg	0.000013 %		
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				0.53 mg/kg		0.53 mg/kg	0.000053 %		
		205-883-8	191-24-2							
37	coronene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				279 mg/kg		279 mg/kg	0.0279 %		
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.026 mg/kg		<0.026 mg/kg	<0.0000026 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0637 %		

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 for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%) because: No free phase product encountered

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0279%)

Classification of sample: 3E3115DS[4]

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

Sample details

Sample name:	LoW Code:	
3E3115DS[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)
4.6 m		
Moisture content:		
18%		
(no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.5 mg/kg	1.32	11.223 mg/kg	0.00112 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25.6 mg/kg	1.462	37.416 mg/kg	0.00374 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				9.8 mg/kg	1.126	11.034 mg/kg	0.0011 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	17.7 mg/kg	1.56	27.609 mg/kg	0.00177 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				8.9 mg/kg	2.976	26.489 mg/kg	0.00265 %		
	028-035-00-7	238-766-5	14721-18-7							
10	zinc { zinc chromate }				34.8 mg/kg	2.774	96.54 mg/kg	0.00965 %		
	024-007-00-3	236-878-9	13530-65-9							
11	boron { diboron trioxide }				0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
	005-008-00-8	215-125-8	1303-86-2							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %		<LOD
	006-007-00-5									
13	asbestos				<100 mg/kg		<100 mg/kg	<0.01 %		<LOD
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
			77536-66-4 77536-68-6 77536-67-5 12001-29-5							
14	pH				7.9 pH		7.9 pH	7.9 pH		
			PH							
15	phenol				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.12 mg/kg		<0.12 mg/kg	<0.000012 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	benzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.012 mg/kg		<0.012 mg/kg	<0.0000012 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		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				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		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				0.12 mg/kg		0.12 mg/kg	0.000012 %		
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	coronene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-881-7	191-07-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
38	TPH (C6 to C40) petroleum group				<24.4 mg/kg		<24.4 mg/kg	<0.00244 %		<LOD
			TPH							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.024 mg/kg		<0.024 mg/kg	<0.0000024 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0332 %		

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: 3E3119HP

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

Sample details

Sample name:	LoW Code:	
3E3119HP	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		
Moisture content:		
16.3%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 16.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				5.3 mg/kg	1.32	6.998 mg/kg	0.0007 %		
2	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 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 215-160-9 1308-38-9				14.9 mg/kg	1.462	21.777 mg/kg	0.00218 %		
4	chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 215-607-8 1333-82-0				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
6	copper { dicopper oxide; copper (I) oxide } 029-002-00-X 215-270-7 1317-39-1				15.6 mg/kg	1.126	17.564 mg/kg	0.00176 %		
7	lead { lead chromate } 082-004-00-2 231-846-0 7758-97-6			1	19.1 mg/kg	1.56	29.792 mg/kg	0.00191 %		
8	mercury { mercury dichloride } 080-010-00-X 231-299-8 7487-94-7				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
9	zinc { zinc chromate } 024-007-00-3 236-878-9 13530-65-9				56.7 mg/kg	2.774	157.294 mg/kg	0.0157 %		
10	boron { diboron trioxide } 005-008-00-8 215-125-8 1303-86-2				1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
Total:								0.0228 %		

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: 3E3119HP[2]

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

Sample details

Sample name:	LoW Code:	
3E3119HP[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:		
14.8%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: **14.8% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.3 mg/kg	1.32	3.037 mg/kg	0.000304 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7.5 mg/kg	1.462	10.962 mg/kg	0.0011 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.405	<0.703 mg/kg	<0.0000703 %		<LOD
	034-002-00-8									
6	copper { dicopper oxide; copper (I) oxide }				6.3 mg/kg	1.126	7.093 mg/kg	0.000709 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	3.4 mg/kg	1.56	5.303 mg/kg	0.00034 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	zinc { zinc chromate }				19.8 mg/kg	2.774	54.928 mg/kg	0.00549 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide }				<0.5 mg/kg	3.22	<1.61 mg/kg	<0.000161 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
Total:								0.00832 %		

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



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

■ 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.

■ 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

■ 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

• **coronene** (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.
Data source: <http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en>
Data source date: 16 Jun 2014
Hazard Statements: STOT SE 2; H371

• **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

• **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil.

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.

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight.

boron {diboron trioxide}

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

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

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

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2024.304.6320.11573 (30 Oct 2024)

HazWasteOnline Database: 2024.304.6320.11573 (30 Oct 2024)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

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

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024

Appendix F: Ground Gas Monitoring

Table F1: Ground Gas Monitoring Results Summary for 2E3000RC

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	
13 July 2023	<0.1	0.3	19.0	2	1	1.1	<0.1
10 August 2023	<0.1	0.9	19.7	1	1	0.3	<0.1
7 September 2023	<0.1	0.3	19.9	2	1	0	<0.1
6 October 2023	<0.1	1.5	19.6	<1	<1	0	<0.1
8 November 2023	0.1	1.7	19.4	<1	<1	0	0.2
11 December 2023	0.1	0.1	21.3	<1	<1	<0.1	<0.1
12 January 2024	0.1	2.0	18.5	<1	<1	0.2	<0.1
8 February 2024	0.1	1.4	18.1	<1	<1	<0.1	<0.1
5 March 2024	0.2	0.2	21.2	<1	<1	<0.1	0.1
7 May 2024	<0.1	0.1	20.2	0	<10	<0.1	0

Notes:

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
 ppmv - Part per Million Volume

Table F2: Ground Gas Monitoring Results Summary for 2E3002RC

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	
13 July 2023	No readings taken due to gas bung malfunction.						
10 August 2023	<0.1	1.3	19.7	1	1	0.3	0.1
8 September 2023	<0.1	1.2	19.0	1	1	0	<0.1
6 October 2023	<0.1	1.3	19.8	<1	<1	0	<0.1
8 November 2023	0.1	2.4	18.8	<1	<1	0	<0.1
11 December 2023	0.1	2.6	19.1	<1	<1	<0.1	<0.1
12 January 2024	0.1	2.6	16.7	<1	<1	0.1	<0.1
8 February 2024	0.1	2.5	19.1	<1	<1	<0.1	<0.1
5 March 2024	0.2	2.7	19.3	<1	<1	<0.1	<0.1
6 May 2024	<0.1	<0.1	20.2	0	<10	<0.1	0

Notes:

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.
 ppmv - Part per Million Volume

Table F3: Ground Gas Monitoring Results Summary for 3E3019DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	
02 May 2024	<0.1	<0.1	19.6	0	<0.1	Not reported	<0.1
16 May 2024	<0.1	5.7	12.8	0	<10	1	<0.1
30 May 2024	<0.1	6.2	16.4	0	<10	1.1	<0.1
19 June 2024	<0.1	3.5	19.7	0	<10	0	0
2 July 2024	<0.1	3.3	19.2	0	<10	Not reported	0
16 July 2024	<0.1	2.5	17.5	0	<10	<0.1	9

Notes:

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.

ppmv - Part per Million Volume

Table F4: Ground Gas Monitoring Results Summary for 3E3035DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	
16 May 2024	<0.1	0.4	20.0	0	<10	Not reported	0
22 May 2024	<0.1	0.4	20.1	0	<10	Not reported	0
19 June 2024	<0.1	0.9	20.7	0	<10	0	0
02 July 2024	<0.1	0.7	20.6	0	<10	Not reported	0
16 July 2024	<0.1	0.7	20.0	0	<10	0	0

Notes:

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.

ppmv - Part per Million Volume

Table F5: Ground Gas Monitoring Results Summary for 3E3115DS

Monitoring Date	Peak Gas Concentrations (minimum for Oxygen)						Max Gas Flow Rate (pk) l/hr
	CH ₄ %vol	CO ₂ %vol	O ₂ %vol	CO ppm	H ₂ S ppm	VOC ppmv	
19 June 2024	<0.1	<0.1	<1	0	<10	0	0
02 July 2024	<0.1	0.6	20.3	0	<10	Not reported	0
16 July 2024	<0.1	0.3	20.7	0	<10	0	0

Notes:

CH₄ - Methane, CO₂ – Carbon Dioxide, O₂ – Oxygen, CO – Carbon Monoxide, H₂S – Hydrogen Sulphide, VOC – Volatile Organic Compounds.

ppmv - Part per Million Volume

Appendix G: Guidance for the Assessment of Land Contamination

Selection of Soil Assessment Criteria Protective of Human Health

Generic Assessment Criteria (GAC)

To evaluate potential risks to human health receptors, the soil analytical results have been assessed against the following Generic Assessment Criteria (GAC):

- Suitable for Use Values (S4ULs) for commercial land use (Nathanail et al, 2015) adopting a 1% soil organic matter (SOM) value.
- Lead was compared against the Defra Category 4 Screening Level (C4SL) for a commercial end use, (Defra, 2014) because a S4UL for lead has not been published, also adopting a 1% SOM value.
- Cyanide (free) was compared to the Society of Brownfield Risk Assessment (SoBRA) Acute Generic Risk Assessment criteria for assessing risks to human health from contaminants in soil (Society of Brownfield Risk Assessment (SoBRA), 2020) since there are currently no C4SLs or S4ULs for cyanide. The assessment criterion used evaluates potential for acute harm to a child by inhalation of free cyanide. This is a conservative assessment criterion used as generic assessment criteria as allows the criteria to be adjusted if the site-specific conditions are suitable.

The GAC for a Commercial/industrial end-use have been selected as these are considered to be the most appropriate for the protection of construction workers, undertaking the development and the maintenance / operational work at these locations. The GAC have been generated assuming short exposure periods over a long timescale.

The GAC have been generated using assumptions regarding soil characteristics. Where the published GAC are dependent upon Soil Organic Matter (SOM), a value of 1% has been used to provide a conservative assessment. Consideration of the default soil properties used to generate the soil GAC for protection of human health is important as these influence the fate, transport and behaviour of contaminants.

- Soil type – the model default is set as Sandy Loam and assumes a dry and relatively porous soil. The default is considered sufficiently similar to the soils from the Phase 2 and Phase 3B/3C GI locations which are variably clayey/ sandy.
- pH – pH influences the cation exchange capacity and the partitioning behaviour of a chemical between soil and water. The default is pH 7. The ground encountered have been found to have a pH between 5.9 and 9.6 with the average and median values of 7.9 and 8.3 respectively.

Selection of Water Assessment Criteria Protective of Human Health

Generic Assessment Criteria

The Site is located over a bedrock Principal Aquifer (Portsdown Chalk Formation). To evaluate potential risks to human health via ingestion of drinking water from the underlying aquifer, the soil leachate analysis results (2:1) were assessed against the following GAC:

UK Drinking Water Standards (DWS).

The Water Supply ² (Water Quality) Regulations 2021 has been used as the GAC for protection of human health.

¹ DWI (2021) Guidance on The Water Supply (Water Quality) Regulations 2016 (as amended) specific to PFOS and PFOA concentrations in drinking water DWI, January 2021.

Water Supply (Water Quality) Regulations 1989 (WQS)

In the absence of a TPH threshold within the UK Drinking Water Standards, a value of 10 µg/l as presented within the withdrawn Water Supply (Water Quality) Regs 1989 has been used for reference purposes. These thresholds are considered protective of human health.

Groundwater beneath the Site is under protection for potable abstraction and on this basis an assessment of these aquifers as a drinking water resource has been undertaken.

Limit of Detection vs. GAC

Where the concentration of a determinand is below the limits of detection and the limits of detection are below the relevant threshold criterion, the concentrations recorded are not considered to present a hazard to human health or controlled waters.

Where the concentration of a determinand is below the limit of detection and the limit of detection is greater than the relevant threshold criterion, ultra-low analysis or further Detailed Quantitative Risk Assessment would be required to robustly conclude that these can be eliminated as hazards.

Appendix H: Risk Assessment Tables

Table H1: Contaminated Land Risk Assessment for BPT-E / IPS-E Above Ground Plant

Site Name/Reference	BPT-E / IPS-E Above Ground Plant (Section E)						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
<p>Works – Parchow Groundworks located approximately 50 m northwest of BPT-E / IPS-E (PSC 476)</p> <p>Located within 50 m of DoL</p> <p>GI location 2E30001RC drilled c.60 m southeast of this PSC.</p> <p>GI location 3E3101TP excavated c.25m northeast of this PSC.</p>	<p>Petroleum hydrocarbons, volatile organic compounds (VOCs), metals, polycyclic aromatic hydrocarbons (PAHs), and asbestos.</p> <p>Findings from GI:</p> <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil GAC exceedances. ■ Soil leachate (2:1) analysis not requested. ■ The in-situ PID testing recorded a peak VOC concentration of 7 ppm in 3E3101TP chalk deposits. ■ Ground gas monitoring not undertaken. 	<p>Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.</p>	Direct dermal contact, ingestion and inhalation of dusts	Medium	Unlikely No soil GAC exceedances in 2E30001RC nor 3E3101TP	Low	
			Inhalation of vapours	Medium	Unlikely In-situ PID testing in 2E30001RC showed no significant VOC concentrations in soils.	Low	
		Adjacent land users: arable farming	Direct dermal contact, ingestion and inhalation of dusts, and vapours during excavation works and stockpiling	N/A for a PSC outside BPT-E / IPS-E.			
		<p>On Site future property (buildings and buried services): Location and design of building structures within BPT-E / IPS-E to be confirmed.</p>	Direct contact with materials	Medium	Unlikely Design sulphate class is DS1. Aggressive Chemical Environment for Concrete (ACEC) is AC1.	Low	
			Vapour migration and accumulation	Medium	Unlikely	Low	
		Surface water bodies/watercourses: No main rivers within 250 m	Surface water runoff from stockpiles and migration through groundwater and underground utilities	N/A for a PSC outside BPT-E / IPS-E.			
		Groundwater: bedrock is a Principal Aquifer. No superficial deposits encountered in 2E30001RC or 3E3101TP.	Leaching through unsaturated and saturated soil	Medium	Unlikely No significant contaminant concentrations detected in soils. BPT E / IPS-E is on higher ground.	Low	
		Ecological receptors (flora and fauna): Portsdown SSSI located approximately 160 m south from DoL.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals	N/A for a PSC outside BPT-E / IPS-E.			

Site Name/Reference	BPT-E / IPS-E Above Ground Plant (Section E)						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
<p>Pit - Unspecified (PSC 262 and 314)</p> <p>Water Works - Reservoir (PSC 319) and Water Works (PSC 358)</p> <p>Pit – Chalk (PSCs 313, 323 and 324)</p> <p>Landfill (PSC 499)</p> <p>Located 60 to 250 m of BPT-E / IPS-E. Potential for Made Ground with infill of unknown material.</p> <p>GI locations 2E3000RC and 2E30002RC drilled c.100-250 m north/northwest/southwest of these PSCs.</p>	<p>Petroleum hydrocarbons, metals, inorganics, asbestos, and ground gas (i.e., methane, carbon dioxide, carbon monoxide and hydrogen sulphide).</p> <p>Findings from GI:</p> <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil GAC exceedances. ■ Soil leachate (2:1) analysis not requested. ■ In-situ PID testing recorded a peak VOC concentration of 0.2 ppm in 2E3000RC chalk deposits. ■ Peak CO₂ concentration of 2.7 %, minimum oxygen level of 16.7 % detected. 	<p>Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation</p>	<p>Direct dermal contact, ingestion and inhalation of dusts</p>	<p>Medium</p>	<p>Unlikely No soil GAC exceedances.</p>	<p>Low</p>	
		<p>Adjacent land users: arable farming</p>	<p>Inhalation of gases and vapours</p>	<p>Medium</p>	<p>Low Likelihood CO₂ exceedances for short and long-term WELs. Depleted oxygen levels. In-situ PID testing showed no significant VOC concentrations in soils.</p>	<p>Moderate / Low</p>	
		<p>Adjacent land users: arable farming</p>	<p>Direct dermal contact, ingestion and inhalation of dusts, gases and vapours during excavation works and stockpiling</p>	<p>N/A for PSCs outside BPT-E / IPS-E.</p>			
		<p>On Site future property (buildings and buried services): Location and design of building structures within BPT-E / IPS-E to be confirmed.</p>	<p>Direct contact with materials</p>	<p>Medium</p>	<p>Unlikely Design sulphate class is DS1. ACEC is AC1.</p>	<p>Low</p>	
		<p>Surface water bodies/watercourses: No main rivers within 250 m</p>	<p>Gas migration and accumulation</p>	<p>Medium</p>	<p>Unlikely CH₄ concentrations in 2E3000RC and 2E3002RC are below LEL. Gas Screening Value (GSV) = 0.0054 l/hr classed as Characteristic Situation (CS) 1.</p>	<p>Low</p>	
		<p>Surface water bodies/watercourses: No main rivers within 250 m</p>	<p>Surface water runoff from stockpiles and migration through groundwater and underground utilities</p>	<p>N/A for PSCs outside BPT-E / IPS-E.</p>			
		<p>Groundwater: Principal Aquifer and Secondary Undifferentiated Aquifer</p>	<p>Leaching through unsaturated and saturated soil</p>	<p>Medium</p>	<p>Unlikely No significant contaminant concentrations detected in soils. BPT-E / IPS-E is on higher ground than the PSCs.</p>	<p>Low</p>	
		<p>Ecological receptors (flora and fauna): Portsdown SSSI approximately 160 m from DoL</p>	<p>Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals</p>	<p>N/A for PSCs outside BPT-E / IPS-E.</p>			

Table H2: Contaminated Land Risk Assessment for Section E

Site Name/Reference	Section E						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
Pit – Chalk (PSCs 264 and 289) Former chalk pits within 10 m of the DoL. Potential for Made Ground with infill of unknown material. GI locations 3E3020DS and 3E3021DS drilled c.10-25 m southwest & south of these PSCs.	Metals, inorganics, asbestos, petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), benzene, toluene, ethylbenzene (BTEX) and phenols. Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide). Findings from GI: <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil GAC exceedances. ■ GAC exceedance for nitrate and TPH in soil leachate results from 3E3020DS (PSC 264) and for TPH in 3E3021DS (PSC 289). TPH were also detected at the adopted GAC level of 10 µg/l in topsoil from 3E3021DS. ■ In-situ PID testing detected peak VOC concentration of 1.5 ppm in chalk deposits. ■ Ground gas monitoring not undertaken. 	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts	Medium	Low Likelihood Due to distance. No soil GAC exceedances.	Moderate / Low	
			Inhalation of gases and vapours	Medium	Low Likelihood Due to distance. In-situ PID testing did not detect significant VOC concentrations in soils.	Moderate / Low	
		Adjacent land users: Farmland	Direct dermal contact, inhalation of dusts, and vapours during excavation works and stockpiling	N/A for PSCs outside DoL			
		On Site future property (buildings and buried services): No infrastructure areas within 250 m.	Direct contact with materials and gas migration / accumulation.	Medium	Unlikely No building structures as part of scheme. No Made Ground encountered. Design sulphate class is DS1, ACEC is AC1.	Low	
		Surface water bodies/watercourses: None within 250 m of the DoL.	Surface water runoff from stockpiles and migration through groundwater and underground utilities	N/A for PSCs outside DoL			
		Groundwater: Head deposits (Secondary Undifferentiated Aquifer), Portsdown Chalk or Spetisbury Chalk Member (Principal Aquifer).	Leaching through unsaturated and saturated soil	Medium	Low Likelihood GAC exceedances in soil leachate results from 3E3020DS and 3E3021DS but groundwater not encountered during GI.	Moderate / Low	
		Ecological receptors (flora and fauna): No sensitive ecological receptors found within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals	N/A for PSCs outside DoL			

Site Name/Reference	Section E						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
<p>Pit – Chalk (269, 275, 276, 290)</p> <p>Former chalk pits within 50 m of the DoL. Potential for Made Ground with infill of unknown material.</p> <p>GI locations 3E3036DS, 3E3110DS, 3E3102TP and 3E3106TP drilled within 50 m south, northeast or southeast of these PSCs.</p>	<p>Metals, inorganics, asbestos, petroleum hydrocarbons, PAHs, BTEX and phenols.</p> <p>Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide).</p> <p>Findings from GI:</p> <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil GAC exceedances. ■ TPH were detected at the adopted GAC level of 10 µg/l in Head deposits from 3E3036DS (PSC 269), 3E3106TP (PSC 276) and 3E3110DS (PSC 290), and chalk from 3E3106TP. ■ In-situ PID testing detected peak VOC concentration of 2.7 ppm in 3E3110DS Head deposits. ■ Ground gas monitoring not undertaken. 	<p>Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.</p>	<p>Direct dermal contact, ingestion and inhalation of dusts</p>	<p>Medium</p>	<p>Low Likelihood Due to distance. No soil GAC exceedances</p>	<p>Moderate / Low</p>	
		<p>Adjacent land users: Farmland</p>	<p>Inhalation of gases and vapours</p>	<p>Medium</p>	<p>Low Likelihood Due to distance. In-situ PID testing did not detect significant VOC concentrations in soils.</p>	<p>Moderate / Low</p>	
		<p>On Site future property (buildings and buried services): No infrastructure areas within 250 m.</p>	<p>Direct contact with materials and gas migration / accumulation.</p>	<p>Medium</p>	<p>Unlikely No building structures as part of scheme. No Made Ground encountered.</p>	<p>Low</p>	
		<p>Surface water bodies/watercourses: Land drain at Widley Farm c.130 m north of DoL.</p>	<p>Surface water runoff from stockpiles and migration through groundwater and underground utilities</p>	<p>N/A for PSCs outside DoL</p>			
		<p>Groundwater: Head Deposits (Secondary Undifferentiated Aquifer), Portsdown Chalk or Spetisbury Chalk Member (Principal Aquifer).</p>	<p>Leaching through unsaturated and saturated soil</p>	<p>Medium</p>	<p>Unlikely No GAC exceedances in soil leachate results. Groundwater not encountered during GI.</p>	<p>Low</p>	
		<p>Ecological receptors (flora and fauna): No sensitive ecological receptors found within 250 m.</p>	<p>Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals</p>	<p>N/A for PSCs outside DoL</p>			

Site Name/Reference	Section E					
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)
Pit - Chalk (268) Former chalk pit within the DoL. Potential for Made Ground with infill of unknown material. GI locations 3E3114DS and 3E3115DS drilled within this PSC.	Metals, inorganics, asbestos, petroleum hydrocarbons, PAHs, BTEX and phenols. Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide). Potential for pathogens to be present within Made Ground due to use of the pit to bury cattle infected with the foot & mouth disease in late 1960s. Findings from GI: <ul style="list-style-type: none"> ■ Made Ground encountered to 6.45 m bgl in 3E3115DS. ■ An organic odour was noted within Made Ground. ■ No soil GAC exceedances in 3E3115DS. Soil results for 3E3114DS not available. ■ GAC exceedances for iron, manganese and TPH in soil leachate results. ■ In-situ PID testing was not undertaken. ■ Peak CO₂ concentration of 0.6 %, minimum oxygen level of 20.3 % detected. 	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts	Medium	Likely PSC within DoL. No soil GAC exceedances in 3E3115DS. Conservative estimate as soil results for 3E3114DS not available.	Moderate
			Inhalation of gases and vapours	Medium	Likely PSC within DoL CO ₂ exceedances for long-term WEL.	Moderate
		Adjacent land users: Farmland	Direct dermal contact, ingestion and inhalation of dusts, and vapours during excavation works and stockpiling	Medium	Low Likelihood PSC within DoL. No soil GAC exceedances in 3E3115DS. Conservative estimate as soil results for 3E3114DS not available.	Moderate / Low
		On Site future property (buildings and buried services): No infrastructure areas within 250 m.	Direct contact with materials and gas migration / accumulation.	Medium	Unlikely No building structures as part of scheme.	Low
		Surface water bodies/watercourses: Land drains within Offwell Farm approximately 150 m northeast of the DoL.	Surface water runoff from stockpiles and migration through groundwater and underground utilities	Mild	Low Likelihood Due to distance. GAC exceedances in soil leachate results but contaminants would be diluted by ground and surface water.	Low
		Groundwater: No superficial deposits. Portsdown Chalk or Spetisbury Chalk Member (Principal Aquifer).	Leaching through unsaturated and saturated soil	Medium	Likely PSC within DoL. GAC exceedances in soil leachate results.	Moderate
		Ecological receptors (flora and fauna): No sensitive ecological receptors found within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals	N/A due to absence of ecological receptors within 250 m		

Site Name/Reference	Section E						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
<p>Pit - Chalk (270)</p> <p>Former chalk pit partly within the DoL. Potential for Made Ground with infill of unknown material.</p> <p>GI location 3E3035DS drilled c.20 m north of this PSC.</p>	<p>Metals, inorganics, asbestos, petroleum hydrocarbons, PAHs, BTEX and phenols.</p> <p>Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide).</p> <p>Findings from GI:</p> <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil GAC exceedances. ■ Soil leachate (2:1) analysis not requested. ■ In-situ PID testing did not detect VOC concentrations in soils. ■ Peak CO₂ concentration of 0.9 %, minimum oxygen level of 20 % detected. 	<p>Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.</p>	<p>Direct dermal contact, ingestion and inhalation of dusts</p>	<p>Medium</p>	<p>Low Likelihood PSC partly within DoL but no soil GAC exceedances.</p>	<p>Moderate / Low</p>	
			<p>Inhalation of gases and vapours</p>	<p>Medium</p>	<p>Likely PSC partly within DoL. CO₂ exceedances for long-term WEL.</p>	<p>Moderate</p>	
		<p>Adjacent land users: Farmland</p>	<p>Direct dermal contact, ingestion and inhalation of dusts, and vapours during excavation works and stockpiling</p>	<p>Medium</p>	<p>Unlikely No soil GAC exceedances. In-situ PID testing did not detect VOC concentrations in soils.</p>	<p>Low</p>	
		<p>On Site future property (buildings and buried services): No infrastructure areas within 250 m.</p>	<p>Direct contact with materials and gas migration / accumulation.</p>	<p>Medium</p>	<p>Unlikely No Made Ground encountered. Design sulphate class is DS1, ACEC is AC1. No building structures as part of scheme.</p>	<p>Low</p>	
		<p>Surface water bodies/watercourses: None within 250 m of the DoL.</p>	<p>Surface water runoff from stockpiles and migration through groundwater and underground utilities</p>	<p>N/A due to absence of surface water receptors within 250 m</p>			
		<p>Groundwater: No superficial deposits. Portsdown Chalk or Spetisbury Chalk Member (Principal Aquifer).</p>	<p>Leaching through unsaturated and saturated soil</p>	<p>Medium</p>	<p>Likely Groundwater encountered during GI. PSC partly within DoL. Conservative estimate as soil leachate analysis not available.</p>	<p>Moderate</p>	
		<p>Ecological receptors (flora and fauna): Stroud Coppice Ancient Woodland approximately 65 m north of DoL.</p>	<p>Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals</p>	<p>Medium</p>	<p>Unlikely No significant soil contaminant, vapour or gas concentrations detected.</p>	<p>Low</p>	

Site Name/Reference	Section E						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
Pit - Chalk (278) Former chalk pit within the DoL. Potential for Made Ground with infill of unknown material. GI locations 3E3023TP and 3E3108TP excavated within this PSC.	Metals, inorganics, asbestos, petroleum hydrocarbons, PAHs, BTEX and phenols. Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide). Findings from GI: <ul style="list-style-type: none"> ■ Made Ground encountered in 3E3023TP. ■ A hydrocarbon odour was noted within Made Ground. ■ No soil GAC exceedances. ■ No significant VOC concentrations detected in soils. ■ GAC exceedances for aromatic petroleum hydrocarbons, ammonium (NH₄), nitrate (NO₃), nitrite (NO₂) and sulphate (SO₄) in soil leachate results from Made Ground. ■ Ground gas monitoring not undertaken. 	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts	Medium	Low Likelihood PSC within DoL but no soil GAC exceedances.	Moderate / Low	
		Inhalation of gases and vapours	Medium	Likely PSC within DoL. In-situ PID testing did not detect VOC concentrations in soils. Hydrocarbon odour noted in Made Ground.	Moderate		
		Adjacent land users: Farmland	Direct dermal contact, ingestion and inhalation of dusts, and vapours during excavation works and stockpiling	Medium	Unlikely PSC within DoL but no sensitive receptors within 250 m. No soil GAC exceedances. No VOCs detected in soils, hydrocarbon odour noted within Made Ground likely to disperse quickly in open air environment.	Low	
		On Site future property (buildings and buried services): No infrastructure areas within 250 m.	Direct contact with materials and gas migration / accumulation.	Medium	Unlikely No building structures as part of scheme.	Low	
		Surface water bodies/watercourses: None within 250 m of the DoL.	Surface water runoff from stockpiles and migration through groundwater and underground utilities	N/A due to absence of surface water receptors within 250 m			
		Groundwater: No superficial deposits. Portsdown Chalk or Spetisbury Chalk Member (Principal Aquifer).	Leaching through unsaturated and saturated soil	Medium	Likely GAC exceedances in soil leachate results from Made Ground. PSC within DoL but groundwater not encountered during GI.	Moderate	
		Ecological receptors (flora and fauna): No sensitive ecological receptors found within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals.	N/A due to absence of ecological receptors within 250 m			

Site Name/Reference	Section E					
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)
<p>Works - Kilns (279, 282) Kilns on chalk pit (PSC 278) Located within DoL. GI locations 3E3023TP and 3E3108TP excavated c. 30-50 m northeast & northwest of the PSCs.</p>	<p>Metals, inorganics, asbestos, petroleum hydrocarbons, PAHs, BTEX and phenols. Made Ground containing unknown materials including asbestos.</p>	<p>Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.</p>	<p>Direct dermal contact, ingestion and inhalation of dusts and vapours.</p>	<p>Mild</p>	<p>Low Likelihood PSCs within DoL but no soil GAC exceedances. In-situ PID testing did not detect VOC concentrations in soils.</p>	<p>Low</p>
		<p>Adjacent land users: Farmland</p>	<p>Direct dermal contact, ingestion and inhalation of dusts, and vapours during excavation works and stockpiling</p>	<p>Mild</p>	<p>Low Likelihood PSCs within DoL but no soil GAC exceedances. In-situ PID testing did not detect VOC concentrations in soils.</p>	<p>Low</p>
	<p>Findings from GI: ■ Made Ground encountered in 3E3023TP. ■ A hydrocarbon odour was noted within Made Ground. ■ No soil GAC exceedances. ■ No significant VOC concentrations detected in soils. ■ GAC exceedances for aromatic petroleum hydrocarbons, ammonium (NH₄), nitrate (NO₃), nitrite (NO₂) and sulphate (SO₄) in soil leachate results from Made Ground.</p>	<p>On Site future property (buildings and buried services): No infrastructure areas within 250 m.</p>	<p>Direct contact with materials and gas migration / accumulation.</p>	<p>Mild</p>	<p>Low Likelihood Made Ground encountered in 3E3023TP. No building structures as part of scheme.</p>	<p>Low</p>
	<p>Surface water bodies/watercourses: None within 250 m of the DoL.</p>	<p>Surface water runoff from stockpiles and migration through groundwater and underground utilities</p>	<p>N/A due to absence of surface water receptors within 250 m</p>			
	<p>Groundwater: No superficial deposits. Portsdown Chalk Formation (Principal Aquifer).</p>	<p>Leaching through unsaturated and saturated soil</p>	<p>Medium</p>	<p>Low Likelihood GAC exceedances in soil leachate results from Made Ground. PSCs within DoL but groundwater not encountered during GI.</p>	<p>Moderate / Low</p>	
	<p>Ecological receptors (flora and fauna): No sensitive ecological receptors found within 250 m.</p>	<p>Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals</p>	<p>N/A due to absence of ecological receptors within 250 m</p>			

Site Name/Reference	Section E						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
Infilled Land - Pond (280) Potentially infilled former pond. Possible Made Ground with infill of unknown material. Located within 50 m buffer from DoL. GI location 3E3019DS drilled c. 18 m southwest of the PSC.	Metals, inorganics, asbestos, petroleum hydrocarbons, PAHs, BTEX and phenols. Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide). Findings from GI: <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil or soil leachate (2:1) analysis available. ■ No in-situ PID testing undertaken. ■ Peak CO₂ concentration of 6.2 %, minimum oxygen level of 12.8 % detected. 	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts	Medium	Low Likelihood Due to distance. Conservative estimate as no soil analysis available.	Moderate / Low	
			Inhalation of gases and vapours	Medium	Likely CO ₂ exceedances for short and long-term WELs, depleted oxygen levels.	Moderate	
		Adjacent land users: Farmland and farm buildings	Direct dermal contact, ingestion and inhalation of dusts, and vapours during excavation works and stockpiling	N/A for a PSC outside DoL.			
		On Site future property (buildings and buried services): No building structures.	Direct contact with materials and gas migration / accumulation.	Medium	Unlikely No building structures as part of scheme.	Low	
		Surface water bodies/watercourses: None within 250 m of the DoL.	Surface water runoff from stockpiles and migration through groundwater and underground utilities	N/A for a PSC outside DoL.			
		Groundwater: No Superficial deposits. Portsdown Chalk Formation (Principal Aquifer).	Leaching through unsaturated and saturated soil	Medium	Likely Conservative estimate as no soil or soil leachate analysis results available. Groundwater not encountered during GI.	Moderate	
		Ecological receptors (flora and fauna): No sensitive ecological receptors found within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals	N/A for a PSC outside DoL.			

Site Name/Reference	Section E						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
Pit - Chalk (292) Former chalk pit within the DoL. Potential for Made Ground with infill of unknown material. GI location 3E3112TP excavated c.38 m north of this PSC.	Metals, inorganics, asbestos, petroleum hydrocarbons, PAHs, BTEX and phenols. Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide). Findings from GI: <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil GAC exceedances. ■ No significant VOC concentrations detected in soils. ■ One GAC exceedance for TPH in soil leachate results. ■ Ground gas monitoring not undertaken. 	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts	Medium	Low Likelihood PSC within DoL but no soil GAC exceedances.	Moderate / Low	
			Inhalation of gases and vapours	Medium	Likely PSC within DoL. In-situ PID testing did not detect VOC concentrations in soils. Conservative estimate as no gas monitoring data available.	Moderate	
		Adjacent land users: Farmland	Direct dermal contact, ingestion and inhalation of dusts, and vapours during excavation works and stockpiling	Medium	Unlikely PSC within DoL but no soil GAC exceedances. In-situ PID testing did not detect VOC concentrations in soils.	Low	
		On Site future property (buildings and buried services): No infrastructure areas within 250 m.	Direct contact with materials and gas migration / accumulation.	Medium	Unlikely No Made Ground encountered. Design sulphate class is DS1, ACEC is AC1. No building structures as part of scheme.	Low	
		Surface water bodies/watercourses: None within 250 m of the DoL.	Surface water runoff from stockpiles and migration through groundwater and underground utilities	N/A due to absence of surface water receptors within 250 m			
		Groundwater: No superficial deposits. Portsdown Chalk or Spetisbury Chalk Member (Principal Aquifer).	Leaching through unsaturated and saturated soil	Medium	Low Likelihood GAC exceedances in soil leachate results. PSC within DoL but groundwater not encountered during GI.	Moderate / Low	
		Ecological receptors (flora and fauna): No sensitive ecological receptors within 250 m.	Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals	N/A due to absence of ecological receptors within 250 m			

Site Name/Reference	Section E						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
Works – Parchow Groundworks located adjacent to the DoL (PSC 476) GI location 2E30001RC drilled c.60 m southeast of this PSC. GI location 3E3101TP excavated c.25 m northeast of this PSC.	Petroleum hydrocarbons, volatile organic compounds (VOCs), metals, polycyclic aromatic hydrocarbons (PAHs), and asbestos. Findings from GI: <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil GAC exceedances. ■ Soil leachate (2:1) analysis not requested. ■ The in-situ PID testing recorded a peak VOC concentration of 7 ppm in 3E3101TP chalk deposits. ■ Ground gas monitoring not undertaken. 	Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.	Direct dermal contact, ingestion and inhalation of dusts	Medium	Unlikely No soil GAC exceedances in 2E30001RC nor 3E3101TP	Low	
			Inhalation of vapours	Medium	Unlikely In-situ PID testing recorded a peak VOC concentration of 7 ppm in 3E3101TP chalk deposits.	Low	
		Adjacent land users: arable farming	N/A for a PSC outside DoL.				
		On Site future property (buildings and buried services): AGP site BPT / IPS-E within 250 m, see separate assessment in Table I1. No building structures across the remainder of Section E scheme.	Direct contact with materials	Medium	Unlikely Design sulphate class is DS1. ACEC is AC1.	Low	
			Vapour migration and accumulation	Medium	Unlikely	Low	
		Surface water bodies/watercourses: No main rivers within 250 m	N/A for a PSC outside DoL.				
		Groundwater: bedrock is a Principal Aquifer. No superficial deposits encountered in 2E30001RC or 3E3101TP.	Leaching through unsaturated and saturated soil	Medium	Unlikely No significant contaminant concentrations detected in soils.	Low	
		Ecological receptors (flora and fauna): Portsdown SSSI located approximately 160 m south from DoL.	N/A for a PSC outside DoL.				

Site Name/Reference	Section E						
Potential Source of Contamination	Potential Contaminants of Concern	Receptors	Potential Pathways	Potential Consequence of Pollutant Linkage	Probability of Pollutant Linkage	Risk (Without mitigation measures)	
<p>Landfill (499)</p> <p>Potential landfill recorded by Local Council; unknown infill dated 1952. Possible Made Ground with infill of unknown material.</p> <p>Located within DoL.</p> <p>3E3100DS drilled c. 35 m southeast of this PSC.</p>	<p>Metals, inorganics, asbestos, petroleum hydrocarbons, PAHs, BTEX and phenols.</p> <p>Potential for ground gas (methane, carbon dioxide, carbon monoxide, hydrogen sulphide).</p> <p>Findings from GI:</p> <ul style="list-style-type: none"> ■ No Made Ground encountered. ■ No soil GAC exceedances. ■ No significant VOC concentrations detected in soils. ■ Soil leachate (2:1) analysis was not undertaken. ■ Ground gas monitoring was not undertaken. 	<p>Construction, maintenance workers and future site users: Construction workers during open cut excavations/construction, maintenance workers during operation.</p>	<p>Direct dermal contact, ingestion and inhalation of dusts</p>	<p>Medium</p>	<p>Unlikely No soil GAC exceedances</p>	<p>Low</p>	
		<p>Adjacent land users: Farmland</p>	<p>Inhalation of gases and vapours</p>	<p>Medium</p>	<p>Low Likelihood In-situ PID testing did not detect VOC concentrations in soils. Conservative estimate as no gas monitoring data available.</p>	<p>Moderate / Low</p>	
		<p>On Site future property (buildings and buried services): AGP site BPT / IPS-E within 250 m, see separate assessment in Table I1. No building structures across the remainder of Section E scheme.</p>	<p>Direct dermal contact, ingestion and inhalation of dusts, and vapours during excavation works and stockpiling</p>	<p>Medium</p>	<p>Unlikely No soil GAC exceedances. No significant VOC concentrations detected in soils.</p>	<p>Low</p>	
		<p>Surface water bodies/ watercourses. A covered reservoir is located c.130 m south. No other surface water bodies within 250 m of the PSC.</p>	<p>Direct contact with materials and gas migration / accumulation.</p>	<p>Medium</p>	<p>Unlikely No Made Ground encountered. Design sulphate class is DS1. ACEC is AC1. No building structures as part of scheme.</p>	<p>Low</p>	
		<p>Groundwater: No Superficial deposits. Portsdown Chalk Formation (Principal Aquifer).</p>	<p>Surface water runoff from stockpiles and migration through groundwater and underground utilities</p>	<p>Mild</p>	<p>Unlikely Due to distance and because reservoir is covered. No significant contaminant concentrations detected in soils.</p>	<p>Very Low</p>	
		<p>Ecological receptors (flora and fauna): No sensitive ecological receptors found within 250 m</p>	<p>Leaching through unsaturated and saturated soil</p>	<p>Medium</p>	<p>Low Likelihood Groundwater not encountered during GI. No significant contaminant concentrations detected in soils.</p>	<p>Moderate / Low</p>	
		<p>Ecological receptors (flora and fauna): No sensitive ecological receptors found within 250 m</p>	<p>Plant uptake, direct contact, ingestion and inhalation of dusts, gases, and vapours by animals</p>	<p>N/A due to absence of ecological receptors within 250 m</p>			

Appendix I: Risk Assessment Methodology

Risk Assessment Methodology

Risk Classification Methodology

The method of risk evaluation adopted in this document is consistent with CIRIA C552 (2001). Hence, risk is considered to be a function of both the probability (likelihood) of contamination occurring at the study site and also the potential severity (consequence) of the environmental impacts associated with this contamination.

The classification system used to define contaminant probability, consequence and risk is described in the following tables.

Table A: Classification of probability

Classification	Definition
High Likelihood	There is a contaminant linkage and an event that appears either very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a contaminant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term, and likely over the long term.
Low Likelihood	There is a contaminant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is contaminant linkage but circumstances are such that it is improbable that an event would occur even in the long term.

Table B: Classification of consequence

Classification	Receptor	Definition	Examples
Severe	Humans	Short-term (acute) risk to human health likely to result in "significant harm" as defined in the Environmental Protection Act 1990, Part 2a.	High concentrations of cyanide on the surface of an informal recreation area
	Controlled waters	Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource	Major spillage of contaminants from site into controlled water
	Property	Catastrophic damage to buildings/property	Explosion, causing building collapse (can also equate to an acute human health risk if buildings are occupied)
	Ecology	A short-term risk to a particular ecosystem, or organism forming part of such eco-system	Potentially long term derogation of a designated site or protected species
Medium	Humans	Chronic damage to human health ("significant harm" as defined in the Environmental Protection Act 1990, Part 2a.)	Concentrations of a contaminant from a residential site exceed the site-specific assessment criteria
	Controlled waters	Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution)	Leaching of contaminants from a site to a principal or secondary aquifer
	Property	Significant damage to crops, buildings, structures and services	Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
	Ecology	A significant change in a particular ecosystem	Death of a species within a designated nature reserve
Mild	Humans	Contamination present although unlikely to constitute a significant chronic health risk	Concentrations of a contaminant from a public access site moderately exceed the generic assessment criteria
	Controlled waters	Pollution of non-water resources	Pollution of non-classified groundwater
	Property	Damage to sensitive buildings/structures/services	Aggressive ground conditions leading to potential for long term degradation of buried concrete
	Ecology	Damage to the environment	Localised damage to aquatic habitat causing temporary relocation of certain species
Minor	Humans	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.)	The presence of contaminants at such concentrations that protective equipment is required during site works.
	Controlled waters	Potential minor release of contamination to local water features	Short term or low volume release of potentially polluting material to a secondary surface water course of low existing quality
	Property	Easily reparable effects of damage to buildings, structures and services. Harm which may result in a financial loss, or expenditure to resolve.	The loss of plants in a landscaping scheme. Discolouration of concrete
	Ecology	Short term, localised damage may occur; consequences are spatially and temporally limited	Short term or localised disruption to in situ flora or fauna; no lasting effects

Table C: Risk classification (comparison of consequence and probability)

	Consequence (severity)			
	<i>Severe</i>	<i>Medium</i>	<i>Mild</i>	<i>Minor</i>
<i>High likelihood</i>	Very high risk	High risk	Moderate risk	Moderate/low risk
<i>Likely</i>	High risk	Moderate risk	Moderate/low risk	Low risk
<i>Low likelihood</i>	Moderate risk	Moderate/low risk	Low risk	Very low risk
<i>Unlikely</i>	Moderate/low risk	Low risk	Very low risk	Very low risk