



Land Science



**WESTONS FARM, DORKING ROAD,
WARNHAM, RH12 3QQ**
PHASE II CONTAMINATION
ASSESSMENT
WESTONS FARM TRUST
22ND DECEMBER 2025
LS8779

Site:	WESTONS FARM, DORKING ROAD, WARNHAM, RH12 3QQ	
Title:	PHASE II CONTAMINATION ASSESSMENT	
Project:	REDEVELOPMENT INCLUDING CONVERSION OF BUILDINGS TO RESIDENTIAL UNITS WITH GARDENS	
Client:	WESTONS FARM TRUST	
Contact:	BATCHELLER MONKHOUSE	
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1.0 EXECUTIVE SUMMARY

This summary is a brief precis of the main findings and conclusions of the investigation. For detailed information, the reader is referred to the main report.

The area under investigation comprised 12no. former agricultural buildings (including two metal silos) which was part of a former pig farming business. The proposed redevelopment was understood to comprise the conversion of units 1, 3, 5 and 7 into five residential dwellings (including both single- and two-storey dwellings) with associated car parking spaces, soft-landscaping and private gardens. The intrusive investigation included 12no. hand pits to a maximum of 1.20mbgl.

Strata	Base Depth range (m)	Summary
Hardstanding	0.10-0.17	Concrete (HP02, 03, 04 and 06)
Topsoil	0.15	Dark brown gravelly sandy Silt with flint, brick and 1no. glass fragment (only HP01)
Made Ground	0.30-0.60	Orange/red-brown to dark brown locally light yellow-grey to orange (locally gravelly) sandy silty Clay / silty/sandy Gravel / silty gravelly Sand with flint, brick, concrete, ballast, clinker and rock fragments and rare cobbles (all except HP10)
Reworked Fill	0.60-0.70	Off-white/grey silty Gravel of chalk; or brown and off-white gravelly sandy Silt/Clay with chalk, siltstone, rare brick and 1no wooden fragment (only HP09 and 10)
Weald Clay Formation	0.70-1.20+	Light yellow-grey locally red-brown gravelly sandy silty Clay to sandy Clay with phosphatic nodules, rare siltstone/mudstone fragments and pockets of sand and local black specks and organic material.

Groundwater was not encountered during excavation of any of the investigative positions within a depth of 1.20mbgl.

Excavations are likely to remain generally stable, however, excavations below the water table may become highly unstable.

Buried structural concrete may be designed to DS-1 and AC-1 in accordance with BS8500. Water supply pipe work will require protection from aggressive soil contaminants.

No issues with respect to ground gases have been identified.

No Radon Protection Measures (RPM) are required for new dwellings and extensions at this location.

Soil testing has identified elevated levels of lead, beryllium and PAHs. Requirements for remediation have been identified in Section 11.

Chemical results on most soils corresponded to Non-hazardous waste classification, however the Reworked Fill corresponded to Stable non-reactive hazardous waste. Natural soils are anticipated to generally be Inert waste with further testing.

A Remediation Method Statement should be prepared. This report should be submitted to relevant authorities etc. in good time for consideration and approval.

2.0 INTRODUCTION

2.1 General

Land Science was instructed to undertake a Phase II Contamination Assessment in relation to the proposed redevelopment at Westons Farm, Dorking Road, Warnham, RH12 3QQ. The location is shown on Figure 1, which is centred at grid reference TQ 16524 33757.

2.2 Client

The Client for this appointment was Westons Farm Trust, supported by Batcheller Monkhouse. This report may only be used by this named client and their project team for the purposes set out and subject to the report conditions. It was assumed that the Client already owned the property, and that this investigation was not a pre-purchase appraisal.

2.3 Area Under Investigation

The area under investigation comprised 12no. former agricultural buildings (including two metal silos) which was part of a former pig farming business. The layout is indicated on Figure 2, and a walkover survey is presented in section 4.0. The area was approximately 0.855 hectares.

2.4 Proposed Development

The proposed redevelopment was understood to comprise the conversion of units 1, 3, 5 and 7 into five residential dwellings (including both single- and two-storey dwellings) with associated car parking spaces, soft-landscaping and private gardens. The proposed development was covered under planning application number DC/24/1819. Figure 3 illustrates the layout of the proposed redevelopment. The findings of this report may not be valid if the proposed development is altered.

2.5 Previous Investigations

The following previous investigations relevant to the site were made available:

- Preliminary Investigation Report, Soils Ltd, ref. 22047/PIR Rev1.0, dated August 2025

The phase II ground investigation has been carried out in accordance with the recommendations of the previous report, and all reports must be read in conjunction with each other.

2.6 Scope of Work

The work carried out is described in detail in the following sections but in summary included:

- An intrusive investigation comprising hand excavated trial pits.
- Preliminary chemical testing of selected soil samples in the field and laboratory.

The updated walkover and fieldwork were conducted on 14th and 25th November 2025, under the supervision of Land Science.

2.7 Geo-Environmental Objectives

A phase II intrusive investigation was required, to provide a generic quantitative risk assessment (GQRA).

The report was required to assess risks associated with end users, the proposed redevelopment, adjacent land uses, and the wider environment, in the context of the planning regime.

2.8 Standards

Where practicable, the investigation was undertaken in accordance with the following primary standards and guidance:

- Land Contamination Risk Management (LCRM) Environment Agency June 2025.
- BS10175:2011+A2:2017, Investigation of Potentially Contaminated Sites.
- National Planning Policy Framework, December 2024.
- Building Regulations Approved Document C: Site preparation and resistance to contaminants and moisture, HM Government, September 2013.
- NHBC Standards Chapter 4.1: Land Quality - Managing Ground Conditions, 2024.

Other technical sources have been cited in respect of specific aspects of the investigation, as referenced throughout the text.

3.0 SUMMARY OF PREVIOUS REPORT (22047/PIR)

3.1 General

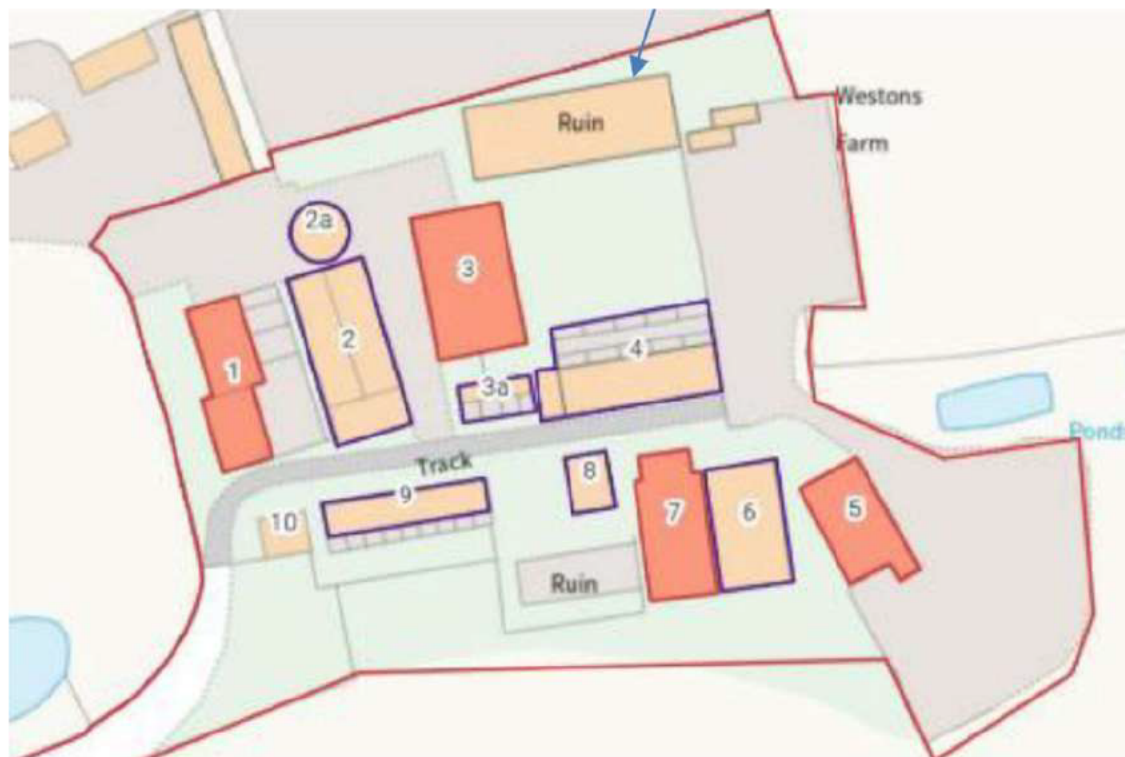
On site

The site comprised 12no. former agricultural buildings which formed part of a pig farming business for over 30 years. These buildings were used as pig feed store (no. 1), rearing shed (no. 2), grain store (no. 2a), open pig barns (no. 3 and no. 3a), store (no. 8), sow cubicles (no. 4 and no. 9), machinery store (no. 5), weaner rearing sheds (no. 6 and no. 7) and farm office (no. 10). Some metal silos were noted onsite. Most of the farm buildings on the site have disused from pig farming but still retain the established agricultural use. Unit no. 5 has been used as an agricultural store.

The site was slightly sloping down to the east at a gradient of circa 1°.

The majority of the site was covered with weeds, shrubs with semi/mature trees spread across the site. Some pavements and driveways were covered with tarmac and concrete, which were in a poor state with cracks/weeds.

Agricultural machinery, equipment and storage may potentially leak engine oil, fuel oils, PAHs and heavy metals. Asbestos roofing material may release fibres.



Off site

Within a 250m radius of the surroundings, residential houses with private gardens were noted to the northwest and north. There were arable and poultry farms in the remaining areas.

The wider site sloped down the east towards the Boldings Brook at a gradient of circa 3°.

Within a 250m radius, vegetation included grass, shrubs, and both immature and mature tree species identified in proximity to agricultural farmland, residential dwellings, and adjacent to roadway verges. Arable and poultry farms noted in the surroundings may potentially use pesticides and herbicides and have PAHs remaining on ground.

3.2 Geology and Hydrogeology

The 1:50,000 BGS Geology map showed the north/northwest of the site to be situated on the Horsham Stone Member and the rest of the site on Weald Clay Formation bedrock, with no overlying superficial deposits.

Horsham Stone Member

Sandstone, calcareous, generally fine-grained, micaceous, locally well laminated, pale grey to greenish/olive grey. Contains clayey partings and lignite fragments and rootlet traces. Frequently shows internal slumping and deformation. Informally subdivided by an interposed mudstone, south of Christ's Hospital in the Horsham area.

Weald Clay Formation

The Weald Clay Formation consists of shales and mudstones with occasional thin beds of siltstones, sandstone, shelly limestone and clay ironstone. When fresh the beds are normally dark grey weathering to mottled yellow and brown near the surface or at outcrop. Bands of red clay occur within the bed, usually in association with the sandstone.

The site lies in the following groundwater setting:

- Superficial aquifer: None recorded.
- Bedrock aquifer: The Horsham Stone Member strata was classified as a secondary A aquifer - permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.
- Bedrock aquifer: The Weald Clay Formation strata was classified as unproductive strata - low permeability strata that have negligible significance for water supply or river base flow.
- Source protection zone: None - no groundwater Source Protection Zones were identified on site or in the vicinity.
- Flooding from Rivers and Sea: Zone 1 Low Probability - Land having a less than 1 in 1,000 annual probability of river or sea flooding.
- Surface water flooding on site: Very low risk - each year this area has a chance of flooding of less than 0.1%. Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding.
- Groundwater flooding on site: Limited potential for groundwater flooding to occur on site.
- Nearest Surface Water Feature: drainage ponds from 3m east.

The anticipated surface water flow direction is east, whilst the anticipated groundwater flow direction is down through the Horsham Stone Member and/or Weald Clay Formation also towards the east, both in line with dominant surrounding topography.

No radon protective measures are required on site. Geological hazards on site are classified as none to a low hazard.

3.3 Preliminary Conceptual Site Model

Summary of potential contaminative sources.

Contaminative Source	Direction	Distance (m)	Date Range		Data Source
			From	To	
On-Site					
Asbestos roofing materials	Onsite		1974-1984	2025	SW/HM/GE
Agricultural machinery, equipment, silo	Onsite		1974-1984	2025	SW/HM/GE
Poultry farm	Onsite		1875-1876	2025	SW/HM/GE
Off-Site					
Farmland	N/W/S/E	<250	1875-1876	2025	SW/HM/GE
Note(s): SW – Site walkover, HM – Historic Maps, GE Google Earth					

- On site asbestos fibres may be released during demolition/remodification.
- The site has a long history of poultry farming with potential leaks from machinery with possible engine oil, fuels (TPHs), PAHs and metals/not-metals.
- Off site also has the long history of poultry farming with the same potential contamination sources plus possible pesticides and herbicides (if arable).

Summary of potential pathways.

Pathway	Present	Comment
Inhalation of dust	✓	During and post redevelopment
Inhalation of vapour/gases	✓	Post redevelopment
Ingestion and absorption via direct contact	✓	During and post redevelopment
Migration via surface runoff	✓	During and post redevelopment
Migration in solution via groundwater	✓	Secondary A Aquifer of the Horsham Stone Member will allow migration
Migration of gases via permeable soils	✓	Only the northwest portion of the site is underlain by the Horsham Stone Member, classified as a Secondary A Aquifer. This unit may allow limited groundwater and gas migration. The remainder of the site is underlain by the Weald Clay Formation, which is designated as Unproductive Strata and is not expected to support significant migration.
Direct contact with construction material	✓	Post redevelopment
Services and utilities	✓	Post redevelopment

Summary of potential receptors.

Potential Receptor		Present
Human Health	Future users of the site (End Users)	✓
	Construction workers on-site (Site Workers)	✓
	Service and maintenance workers (Site Maintenance)	✓
	Site neighbours and wider public (Off-site Users)	✓
Groundwater / Controlled Waters	Surface Water	✓
	Shallow Aquifer	✓
	Deep Aquifer	✓
Buildings & Materials	Buildings and Confined Spaces	✓
	Buried Structures	✓
	Buried Services	✓
Ecosystems	Flora and fauna	

The preliminary risk assessment has been provided in Appendix A.

In conclusion, a very low to moderate risk of contamination has been identified for the site.

3.4 Recommendations

An intrusive investigation was recommended including the following:

Proposed Works	General Purpose	Required
Investigatory Holes	To collect sufficient samples for a robust assessment	✓
Laboratory Testing	To quantify the risks identified in the Conceptual Site Model	✓
Risk Assessment	Assess pollutant linkages based on current contaminated land guidance and screening criteria's	✓
Borehole well installation	To allow for continued groundwater and/or gas monitoring	X
Remediation	If the site-specific risk assessment reveals that the site was contaminated	TBC
Validation & Verification	To validate and verify the remedial objectives based on the site-specific risk assessment	TBC
Note(s): TBC – To be confirmed		

4.0 WALKOVER SURVEY

4.1 General

An updated walkover survey was carried out in order to provide an assessment of the existing site conditions and to identify potential areas of concern. A record of the inspection is shown in Appendix B, with photographs in Appendix C.

4.2 Site Description

In summary, the area under investigation comprised 12no. former agricultural buildings (including two metal silos) which was part of a former pig farming business. The site appeared disused and overgrown with some of the roofs collapsed in and one structure a ruin. However, unit 5 was still in use as an agricultural store.

Surrounding the structures were a few tracks and yards with cracked concrete sections and compacted ground. Generally, areas remained overgrown with vegetation and trees.

The site borders were overgrown but some metal fencing and hedging could be seen from the tracks.

Some of the structures, particularly the roofs were noted as having cement boarding (possible Asbestos Containing Materials).

4.3 Neighbouring Land

Northwest of the site was a residential complex called Westons Place, with agricultural fields surrounding the site to the east, south and west.

4.4 Geo-Environmental Conditions

The walkover survey did not identify any areas of particular concern regarding the geo-environmental condition of the site except for possible Asbestos Containing Materials in the structures. No significant evidence of tanks, chemical storage, staining or sheens, built up ground, contaminative land uses etc. were noted.

4.5 Geotechnical Conditions

The walkover survey did not identify any areas of particular concern regarding the geotechnical condition of the site except for large mature trees covering the site between the structures.

5.0 INTRUSIVE INVESTIGATION

5.1 Investigation Rationale

Based on the findings of the conceptual site model provided in the previous Preliminary Investigation Assessment, the intrusive investigation was based on the following strategy:

- Shallow hand pits were used to minimise disruption to the site.
- The positions were located to give broad coverage across the site including footprints of the proposed dwellings and the gardens.

Pos.	Provisional Depth / Strata	Existing Location	Proposed Location	W3W	Testing
HP01	1.20m (or refusal)	Soft standing	Garden	count.likes.practical	PID
HP02		Building (open pig store)	Unit 3	streak.midfield.masterful	
HP03		Building (ruin)	Garden	slick.mondays.gurling	
HP04		Car park	Garden	landings.animator.javelin	
HP05		Building (pig feed store)	Unit 1	trifling.fountain.investors	
HP06		Access between buildings	Garden	slips.splash.initiated	
HP07		Building (sow cubicle)	Garden	safari.because.resurgent	
HP08		Building (weaner shearing shed)	Unit 7	lamine.yards.calibrate	
HP09		Soft standing	Garden	noting.bugs.tolerable	
HP10		Soft standing	Garden	stars.trespass.frost	
HP11		Building (machinery store)	Unit 5	geologist.scrapping.prickly	
HP12		Car park	Garden	september.copying.youthful	

HP02, HP03, HP05 and HP07 were all slightly relocated due to building access/instability. HP03 had relatively thick and gravelly Made Ground and was terminated at 0.70mbgl in the natural due to time restraints. HP07 was not carried out due to equipment failure and time restraints.

5.2 Contamination Strategy

Geo-environmental aspects were investigated based on the following strategy:

Area of Concern	Investigation	Position(s)
Made Ground	Representative samples of soil were to be screened for a broad industry standard screening contaminants.	All except HP08
Waste classification	For preliminary waste classification, representative samples were to be screened for contaminants and full hazardous waste leachate testing performed.	HP02 and HP10

5.3 Enabling Works

Positions HP02, HP03, HP04, HP06 and HP07 were located within the hardstanding and a concrete breaker was used to proceed through. In addition, the breaker was used within some of the Made Ground.

5.4 Hand Pits (HP)

Hand excavated trial pits provide a low cost and low impact method of sampling shallow soils.

5.5 Soil Sampling

Soil samples were recovered from the exploratory holes during the ground investigation and stored/transported in containers appropriate for the laboratory testing undertaken. Sample types and depths are recorded on the relevant exploratory hole records.

5.6 PID Screening (PID)

Soil samples were screened for VOCs in headspace using a Photo Ionisation Detector (PID) broadly in accordance with the methodology set-out in CIRIA C682. Due to interference from humidity and other factors, Land Science adopts a method detection limit of 1.0ppm to avoid reporting false positive readings.

6.0 GROUND CONDITIONS

6.1 General

The expected ground conditions were anticipated to comprise the Horsham Stone Member over the Weald Clay Formation to depth. However, the investigation did not encounter the anticipated Horsham Stone Member.

A thin capping of hardstanding or topsoil was encountered at the surface of HP01-HP04 and HP06. A summary of the encountered conditions is presented below.

Position	Strata				
	Hardstanding	Topsoil	Made Ground	Reworked Fill	Weald Clay Formation
HP01	-	0.15	0.50	-	1.20+
HP02	0.15	-	0.45	-	1.20+
HP03	0.10	-	0.60	-	0.70+
HP04	0.10	-	0.30	-	1.20+
HP05	-	-	0.60	-	1.20+
HP06	0.17	-	0.30	-	1.20+
HP08	-	-	0.30	-	1.20+
HP09	-	-	0.30	0.70	1.20+
HP10	-	-	-	0.60	1.20+
HP11	-	-	0.30	-	1.20+
HP12	-	-	0.30	-	1.20+

The naming of geological strata is tentative and should be used as a guide. Interpolation between or below investigation points should be treated with caution. The description of soils and rocks was in accordance with BS5930. Topsoil can be distinguished from Made Ground, even though these may have been disturbed through human activity and may contain materials such as brick, pottery, or charcoal etc.

6.2 Hardstanding

Positions HP02, HP03, HP04 and HP06 were located within concrete, which was encountered to depths of between 0.10m and 0.17m.

6.3 Topsoil

Topsoil was encountered in HP01, to a depth of 0.15mbgl. In summary, the Topsoil comprised dark brown slightly gravelly slightly sandy Silt with flint, brick and 1no. glass fragment.

6.4 Made Ground

The Made Ground was encountered in all positions except HP09 and HP10, with the full thickness proved in all, with the base ranging between 0.30m and 0.60mbgl. In summary, the Made Ground comprised orange/red-brown to dark brown locally light yellow-grey to orange (locally gravelly) slightly sandy silty Clay / silty/sandy Gravel / silty gravelly Sand with flint, brick, concrete, ballast, clinker and rock fragments and rare cobbles.

6.5 Reworked Fill

The Reworked Fill was encountered in all positions except HP09 and HP10, with the full thickness proved in both, with the base ranging between 0.60m and 0.70mbgl. In summary, the Reworked Fill comprised off-white/grey silty Gravel of chalk; or brown and off-white slightly gravelly slightly sandy Silt/Clay with chalk, siltstone, rare brick and 1no wooden fragment.

6.6 Weald Clay Formation

The Weald Clay Formation was encountered in all positions and terminated within this strata at depths of between 0.70m and 1.20mbgl. In summary, the Weald Clay Formation comprised light yellow-grey locally red-brown slightly gravelly slightly sandy silty Clay to slightly sandy Clay with phosphatic nodules, rare siltstone/mudstone fragments and pockets of sand and local black specks and organic material.

6.7 Roots and Rootlets

Occurrences of roots and rootlets were noted as follows:

Position	Roots	Rootlets
HP01	0.15-0.50m: rare root (4mm dia)	0.15-1.20m: rare rootlets
HP02	None	None
HP03		
HP04		
HP05	0.05-0.30m: rare root (3mm dia)	0.05-0.30m: abundant rootlets
HP06	0.17-0.30m: rare root (2mm dia)	0.30-0.40m: rare rootlets
HP08	0.0-0.10m: rare root (1mm dia)	None
HP09	1.00-1.20m: rare root (2mm dia)	0.70-1.20m: partially decomposed rootlets
HP10	0.0-0.30m: rare root (1mm dia)	0.0-0.30m: occasional rootlets 0.30-0.60m: abundant rootlets 0.60-1.20m: rare rootlets
HP11	None	None
HP12		

6.8 Field Evidence of Contamination

No evidence of possible soil contamination (such as staining, malodours, or brightly coloured soils) was identified in the field.

Made Ground / Reworked Fill was identified in all positions between 0.30m and 0.70mbgl, and such materials may be imported from an unknown source or mixed with hazardous materials, and as such may contain a wide range of potential contaminants. All such materials should be treated as suspect unless proven otherwise. Preliminary testing has been carried out, as described in section 7.

6.9 Groundwater

Groundwater was not encountered during excavation of any of the investigative positions.

The level of water in a hand pit can be affected by the excavation process and speed of infiltration; short-term rest levels should be used with caution.

6.10 Stability

The excavations were noted to be generally stable throughout with slight spalling of the pit sides.

6.11 PID Screening (PID)

None of the samples exhibited VOCs above the detection limit.

The purpose of the screening was to identify samples which may be impacted by organic contaminants (such as VOCs, SVOCs, petroleum hydrocarbons, diesel, etc.) and to assist in prioritising samples for laboratory analysis.

7.0 CONTAMINATION LABORATORY TESTING

7.1 Scheduled Testing

Samples were selected for geochemical (contamination) analysis, based on the following rationale:

- Made Ground and Reworked Fill were encountered, which may contain a wide range of contaminants. Topsoil and natural Weald Clay Formation samples were also tested, the latter to check for leaching. In total 10no. samples between 0.10m and 0.50mbgl (excluding HP07 and HP08) were tested for a routine screening suite (S1) and were screened for asbestos.
- Following the results speciated TPH was scheduled due to high total TPH levels.
- Two shallow (0.1mbgl) samples from HP09 and HP12 were also tested for pesticides and herbicides due to the adjacent agricultural land use.
- Waste classification testing (S3) on two samples (HP02 and HP10) was included in the scope of works, to provide a preliminary assessment for waste handling. Representative samples of the Made Ground and Reworked Fill were selected for testing.

The scope and extent of testing was considered appropriate and in accordance with the Conceptual Site Model and preliminary risk assessment.

Sample	Strata	S1	Asbestos	S3	Herbicide and Pesticides	TPH7
HP01 0.10m	Topsoil	X	X			X
HP02 0.40m	Made Ground	X	X	X		
HP03 0.50m		X	X			X
HP04 0.30m		X	X			X
HP05 0.10m		X	X			X
HP06 0.20m		X	X			
HP09 0.10m		X	X		X	X
HP10 0.30m	Reworked Fill	X	X	X		X
HP11 0.50m	Weald Clay Formation	X	X			X
HP12 0.10m	Made Ground	X	X		X	X

The relevant screening suites are defined below. Where duplicate analysis exists between suites, each test is performed only once:

Suite	Definition
S1 (soil)	Screening suite: pH, fraction of organic carbon, metals and non-metals, water soluble sulphate, sulphide, total cyanide, total phenols, speciated PAH's.
Asbestos	Asbestos screen: Laboratory screening for fibres and Asbestos Containing Materials (ACM); identification where identified. Using polarising light and dispersion staining as described in HSG 248, HSE Contract Research Report No 83/1996 and in Davies et al, 1996.
TPH7	Speciated TPH: Total petroleum hydrocarbons CWG banding incl. aliphatic and aromatic split plus BTEX and MTBE.

Suite	Definition
Herb./Pest.	Herbicide/pesticide analysis of unknown pesticides and herbicides by GC-MS.
S3	Waste Acceptance Criteria (WAC): Total Organic Carbon (TOC), Loss on Ignition (LoI), BTEX, speciated PCB's, mineral oil (EC10 – EC40), pH, acid neutralisation capacity, speciated PAH's, 10:1 leachable metals and non-metals.

The results are discussed in the relevant sections.

8.0 HUMAN HEALTH SCREENING

8.1 Screening Values

As the basis of a generic tier 1 screening assessment, the results have been compared directly against published standards for human health.

Several different partly overlapping schemes are currently in use in the UK, based on the Environment Agency's CLEA Model but with differing toxicological parameters. For this report, these schemes have been applied in the following hierarchy:

- Suitable For Use levels (S4UL) published by LQM in association with the CIEH.
- Category 4 Screening Levels (C4SL) published by the DEFRA and CL:AIRE.

Whilst other standards exist, such as the LQM Generic Assessment Criterion and the Environment Agency's Soil Guideline Values, these are deemed superseded by the above documents.

The soil chemical analysis results have been compared against respective screening values for residential land uses with plant uptake (i.e. residential properties with private gardens, where homegrown produce could form a proportion of dietary intake).

For contaminants where the respective screening value is dependent on Soil Organic Matter (SOM), the corresponding value for 2.50% was used (the arithmetic mean SOM value for the soil was 4.97%).

Where no standard exists, the contaminant is either not considered a priority in terms of human health (at least in the scenario being considered), or no screening value has been published.

8.2 Screening Results

None of the results exceeded the screening criteria, with the exception of the following:

Determinand	Screening value	Results Exceeding the Screening Value
Mercury (elementary)	1.2mg/kg	HP05 0.10 (1.31mg/kg)
Benzo(a)anthracene	11mg/kg	HP05 0.10m (21.8mg/kg)
Benzo(b)fluoranthene	3.3mg/kg	HP04 0.30m (10.9mg/kg), HP05 0.10m (29.4mg/kg), HP09 0.10m (7.41mg/kg), HP12 0.10m (7.37mg/kg)
Benzo(a)pyrene	2.7mg/kg	HP03 0.50m (2.95mg/kg), HP04 0.30m (12.7mg/kg), HP05 0.10m (29.2mg/kg), HP09 0.10m (6.8mg/kg), HP12 0.10m (9.66mg/kg)
Di-benzo(a,h)anthracene	0.28mg/kg	HP01 0.10m (0.352mg/kg), HP04 0.30m (3.29mg/kg), HP05 0.10m (7.23mg/kg), HP09 0.10m (1.89mg/kg), HP12 0.10m (2.08mg/kg)
Beryllium	1.7	HP06 0.20m (1.76mg/kg)
Lead	200	HP03 0.50m (259mg/kg)

8.3 Elemental Mercury

The screening value for mercury was based on the assessment for elemental mercury as this was the most conservative (lowest) value for the different species of mercury. However, elemental mercury

(i.e. the liquid form) itself is very unlikely to occur in soils and there is no known history of mercury usage at the site. Consequently, the less conservative screening values for inorganic mercury (40mg/kg) or methyl mercury (11mg/kg) are more appropriate in this instance. None of the results exceeded the higher thresholds. Specialist speciated mercury testing is not warranted.

8.4 Benzo(a)Pyrene

With respect to Polycyclic Aromatic Hydrocarbons (PAHs) Land Science adopt the surrogate marker approach described in Appendix E of the C4SL suite of documents i.e. using benzo(a)pyrene as a representative compound for all genotoxic PAHs. This approach was used as benzo(a)pyrene was detected in the samples, and the other PAHs identified above the individual screening values were all classed as genotoxic. The table below summarises the revised screening assessment:

Determinand	GAC	Concentration		Results Above GAC Value
		Mean	Max	
Benzo(a)pyrene (as surrogate marker)	5.0	9.02	29.2	HP04 0.30m (12.7mg/kg), HP05 0.10m (29.2mg/kg), HP09 0.10m (6.8mg/kg), HP12 0.10m (9.66mg/kg)

A PAH double ratio tool was used which suggested possible sources as the following:

- Carburetted water gas tar
- Carbonization and coke oven tar
- Combustion soot
- Urban background

Samples HP02, HP03 and HP10 include petroleum combustion sources from possible use/maintenance of farm machinery. HP02 also has a carburetted water gas tar source from engines. Other samples have grass/wood/coal combustion and coal tar and creosote signatures, suggesting possible bonfires.

8.5 Bioaccessible Metals

The screening values for metals beryllium and lead assumes all ingested contaminant will be fully soluble in stomach acid and therefore available to enter the body. However, this is seldom the case in practice, and can be measured through Physiological Based Extraction Testing (PBET). The method in current use is known as the Unified BARGE Method (UBM) as devised by Bio-Accessibility Research Group Europe (BARGE) which was led by the UK. This data can then be applied as part of a detailed quantitative risk assessment. Whilst there are costs associated with this testing, the results may prove favourable.

8.6 Speciated TPH

The risks from TPHs are assessed differently from other contaminants. The ratio of an individual group of carbon bands to the respective GAC is calculated (a hazard quotient) and these are totalled to derive a sample specific hazard index. A hazard index exceeding 1.0 suggests a potential significant risk to human health in the exposure scenario considered. The calculated hazard indexes for full speciated TPH7 testing are summarised below.

Sample	Total TPH	Hazard Index	Notes
HP01 0.10m	26.6mg/kg	0.05	No potential significant risk to human health
HP02 0.40m	<1mg/kg	-	
HP05 0.10m	117mg/kg	0.08	
HP06 0.20m	8.7mg/kg	-	
HP09 0.10m	841mg/kg	0.20	
HP10 0.30m	1107.0mg/kg	0.10	
HP11 0.50m	999.4mg/kg	0.09	

8.7 Asbestos

There are no published screening values for asbestos in soil. From the ten samples tested no asbestos was detected.

8.8 Herbicides & Pesticides

There are no published screening values for herbicides and pesticides. A total of two samples of soil were screened for the presence of herbicides and pesticides with all results below detection. The full methodology is described in the analytical report.

8.9 Polychlorinated Biphenyls (PCBs)

Two soil samples tested within the waste criteria tests included PCB testing.

There are no published screening values for PCBs in soil, however, from the two samples screened for PCBs, neither of the results exceeded their respective detection limits.

9.0 ENVIRONMENTAL SCREENING

9.1 Soft Landscaping

A number of documents include guidance on screening levels of phytotoxic contaminants within soils, including:

- BS3882:2015 "Specification for topsoil and requirements for use" (although stipulated as not to be used in contaminated land risk assessment).
- ICRCL in publication 70/90 1990 'Notes on the Restoration and Aftercare of Metalliferous Mining Sites for Pasture and Grazing' (although indirectly withdrawn) (where marked *).
- Code of Practice for Agricultural Use of Sewage Sludge (England and Wales 1996) for arable use (as opposed to grazing) and relating to priority phytotoxic elements only.

The results of the chemical analysis for determinands known to pose a potential phytotoxic risk to plant growth are summarised on the following table, together with the respective adopted screening values for plant growth. The results of the chemical analysis were evaluated singularly without the use of statistical tools.

Element	Phytotoxicity Value (mg/kg)			Arable (grassland)	Results Exceeding Screening Value
	pH <6.0	pH 6.0-7.0	pH >7.0	pH >5.2	
Zinc	200	200	300	300 (300)	None
Copper	100	135	200	200 (330)	
Nickel	60	75	110	110 (180)	
Cadmium	50*			3.0 (3.0)	
Arsenic	1,000*			50 (50)	

9.2 pH and Sulphate

The results of the pH and water-soluble sulphate tests are summarised on the following table.

Strata	No. of Tests	Water Soluble Sulphate (SO ₄ mg/l)	pH (value)
Topsoil	1	39	7.71
Made Ground	7	<20 – 102.5	7.75 – 10.79
Reworked Fill	1	<20	7.48
Weald Clay Formation	1	67	8.16

Recommendations with respect to sulphate and buried concrete are made in section 11.4. It is noted that no onerous precautions in this respect are warranted.

9.3 Potable Water Supplies

The risk of chemical attack on water supply pipework has been assessed following the general principles set out in the joint Water UK/HBF (Home Builders Federation) *Contaminated Land Assessment Guidance* dated January 2014. A summary of the main chemical criteria is reproduced below.

Test Group (in mg/kg)	Poly-ethylene (PE)	Polyvinyl Chloride (PVC)	Metal or Barrier pipe	Results Exceeding
VOCs + BTEX & MTBE	0.1	0.03	No limit	None
Mineral oil EC11-20	10	No limit	No limit	HP03 0.50m (10.8mg/kg), HP04 0.30m (38.8mg/kg), HP05 0.10m (11.2mg/kg), HP10 0.30m (183.11mg/kg), HP11 0.50m (201.2mg/kg), HP12 0.10m (30.9mg/kg)
Mineral oil EC21-40	500	No limit	No limit	HP04 0.30m (736mg/kg), HP09 0.10m (841mg/kg), HP10 0.30m (923.4mg/kg), HP11 0.50m (797.8mg/kg), HP12 0.10m (757mg/kg)

Redox potential and conductivity should be checked where metal pipework is to be installed. aluminium barrier pipework is acceptable under all conditions. No pipework should be laid where there is evidence of petrol, diesel etc.

10.0 CONTROLLED WATERS SCREENING

The relevant analytical results have been compared directly against the standard set out in the water framework directive for surface waters, and the current UK potable water supply regulations.

10.1 Soil Leachate Screening

In comparison to the adopted surface water standards, the following determinands exceeded the respective thresholds:

Determinand	EQS	Units	HP02 0.40m	HP10 0.30m
Cadmium	0.000008	mg/l	0.00244	0.0183
Chromium	0.0047	mg/l	0.00524	0.0253
Copper	0.001	mg/l	0.000657	0.00185
Mercury	0.00007	mg/l	0.000342	0.000184

In comparison to the adopted drinking water standards, the following determinands exceeded the respective thresholds:

Determinand	DWS	Units	HP02 0.40m	HP10 0.30m
Cadmium	0.005	mg/l	0.00244	0.0183

11.0 TIER 1 CONTAMINATION ASSESSMENT

11.1 End Users

The preliminary conceptual site model identified end users to comprise residential houses with private gardens, although at the time of writing the exact layout of access roads and soft standing areas was not available.

The chemical results identified elevated PAHs at HP04, HP05, HP09 and HP12, and elevated metals beryllium at HP06 and lead at HP03, all likely associated with the former pig farming business at the site.

Whilst some of the positions will be under the building / hardstanding footprint PAH is semi-volatile and part of the exposure risk is through the inhalation of indoor vapours. There may remain a risk.

Consideration should be given to either conducting further investigation or proceeding considering possible remediation measures.

11.2 Adjacent Land Users

The site has not been identified as a risk of ongoing pollution to neighbouring land. However, measures should always be taken to prevent and control any dust, run-off and mud etc. generated during groundworks, as part of good site management.

11.3 Soft Landscaping

Zinc exceeded the phytotoxicity screening values in the sample from HP10 0.30m (493mg/kg). However, no evidence of potentially phytotoxic effects was noted during the site walkover survey inspection.

The physical composition of the Made Ground (locally gravelly, with flint, brick, concrete, ballast, clinker and rock fragments and rare cobbles) was such that it was unlikely to be a suitable medium for landscaping and planting. Clean imported topsoil and subsoil will be required in accordance with appropriate British Standards.

11.4 Concrete Specification

All sub surface concrete should be designed and specified in accordance with BS8500-1:2015+A1:2016. The results of the sulphate and pH analyses fell into Class DS-1 and an ACEC class AC-1 is appropriate.

11.5 Potable Water Supplies

The recorded concentrations of mineral oil (EC11-20 and EC21-40) exceeded the respective standards for PE pipe in the samples from HP03, HP04, HP05, HP09, HP10, HP11 and HP12. Suitable types of pipework materials may include PVC, metal or aluminium barrier pipe.

No potable water supplies should be laid in contaminated ground.

11.6 Ground Water Protection

The site overlies unproductive strata outside of any source protection zone (SPZ) in a shallow aquifer.

However, whilst the site may lie in a low groundwater sensitivity setting, the risk driver for controlled waters was identified as surface water quality, given the proximity and sensitivity of surface water features and for the reasons set out (in the following section).

11.7 Surface Water Protection

The preliminary conceptual site model identified possible source-pathway-receptor linkages with respect to surface water. Contamination may migrate through the action of water laterally towards the pond 25m west or Boldings Brook 200m northeast, where the water quality may become degraded in terms of recreational amenity, potable abstraction, environmental status, etc.

Comparing the soil-leachate data directly to surface water standards, cadmium, chromium, copper and mercury exceeded the respective standards for samples HP02 0.40m and HP10 0.30m.

By excavating the Made Ground and removing it off site this would reduce the risk to more acceptable levels for the nearby surface water.

11.8 Conclusions

The updated conceptual site model has identified the following potential risks:

- End users; inhalation, ingestion, dermal contact with soils, soil borne dusts, inhalation of vapours, consumption of homegrown produce.
- Soft landscaping; risk of phytotoxicity and poor soil conditions for landscaping and planting.
- Water supply pipes; risk of chemical attack, decay and tainting of water supplies.
- Surface water; risk of contamination in groundwater migrating laterally and impacting on drainage ponds.

Based on a preliminary remediation options appraisal, it was considered that the risks would most cost effectively mitigated by:

- Removal of Made Ground / Reworked Fill from garden areas to 0.60m below finish levels, and reinstating with topsoil/subsoil as required by the landscape designer (minimum 150mm topsoil).
- Geotextile membrane to be installed at 0.60m below finish levels where natural ground is not proven.
- Excavating and disposing of contaminated soils and replacement with a capping system.
- Provision of upgraded or protected water supply pipework to a specification agreed with the local utility.

Regarding the exceedances in PAH levels it seems unlikely that further investigation would be fruitful at this stage. The extent to which the PAH results exceeded the thresholds, specifically below the footprint of one of the proposed dwellings (HP05) suggest that remediation would be the most

sensible and cost effective next step. Provision of an upgraded DPM with vapour protection within the proposed dwellings is recommended.

A copy of this report should be submitted to the relevant authorities for approval in sufficient time prior to commencement on site.

A suitably qualified Environmental Consultant should prepare a full *Remediation Method Statement*. An appropriate level of supervision and testing will be required, to form part of a formal *Verification Report*.

12.0 PRELIMINARY WASTE ASSESSMENT

12.1 General

Waste may be defined as any substance or object in Annex 1 of the Waste Framework Directive which the holder discards, intends to discard, or is required to discard. Subject to compliance with waste regulations, soils may either be handled as either:

- Non-Waste, and re-used (either on-site or on another site), or
- Waste, and disposed of (to a waste management facility).

The waste producer has a legal duty of care to ensure that waste materials are handled properly and sent to the appropriate licenced facility. Substantial tax penalties and fines are being levied by the regulators. Inspection, testing, segregation etc. will be required on site, and the support of a suitably qualified consultant should be sought; therefore, the advice in this section is preliminary only.

12.2 Non-Waste

Soils may potentially be handled as non-waste and re-used on site (or on other sites) in accordance with various protocols such as those published by the EA or CL:AIRE. Typical requirements include:

- That the re-use of material will not endanger human health, cause nuisance, or harm the wider environment (controlled waters, ecosystems, etc.)
- That there is a clear environmental benefit from the activity, and that the waste is being used as a substitute for non-waste material.
- The materials are suitable for use without further treatment.
- The holder is certain that the materials will be used in a safe manner.
- Only the necessary quantities of materials are being used.
- A Waste Recovery Plan (EA) or Materials Management Plan [MMP] (CL:AIRE) are produced and followed, and audited in a Verification Plan.

It may also be possible to treat materials under an environmental permit, standard rules permit, or U1 exemption, subject to strict limits.

The Weald Clay is considered to be potentially suitable for re-use on site. The chemical analysis suggests these materials may be suitable for use in soft landscaped areas (subject to landscaping specifications), or under hardstandings such as roads or slabs (subject to geotechnical considerations).

The Made Ground / Reworked Fill is considered to be unsuitable for re-use on site on account of exceedances in various metals and TPH.

Soil	Suitability for Re-use on Site		
	Landscaping	Hard Cover	Not Suitable
Made Ground			X
Natural soils	X	X	

12.3 Waste Disposal

Where materials are not re-used they must be handled as waste, and must be sent to a licenced waste management facility. Waste soil is classified for disposal purposes as follows:

Step 1: Does the material contain dangerous substances in various proportions that exceed the thresholds for hazardous waste under the Waste Framework Directive?

- If yes, the material is hazardous
- If not, the material is non-hazardous

Step 2: Does the waste acceptance testing allow the materials to be sub classified as follows:

- If hazardous, does the soil meet the requirements for Stable Non-Reactive Hazardous Waste (SNRHW)?
- If non-hazardous, does the soil meet the requirements for inert waste?

A material is therefore either hazardous or non-hazardous waste; hazardous may only be sub-classified as SNRHW and non-hazardous waste may only be sub-classified as inert.

The results of the soils analysis have been interpreted as follows:

Soil	Step 1: Hazardous Waste	Step 2: Waste Acceptance	Asbestos etc.	Waste Designation
Topsoil – HP01 0.10m	Non-hazardous	WAC not carried out	None	Non-hazardous waste*
Made Ground - HP02 0.40m	Non-hazardous	WAC carried out confirming waste to be accepted as non-hazardous, due to mercury and antimony exceeding the inert waste threshold		Non-hazardous waste
Made Ground – HP03 0.50m HP04 0.30m HP05 0.10m HP06 0.20m HP09 0.10m HP12 0.10m	Non-hazardous	WAC not carried out		Non-hazardous waste*
Reworked Fill – HP10 0.30m	Hazardous – due to exceedances in zinc and TPH	WAC carried out confirming waste to be accepted as Stable non-reactive hazardous waste due to cadmium exceeding the inert waste threshold		Stable non-reactive hazardous waste
Weald Clay – HP11 0.50m	Non-hazardous	WAC not carried out		Non-hazardous waste*

Whilst the samples marked * were classified as non-hazardous, WAC testing was not carried out and therefore the materials could not be sub-classified as Inert.

Further WAC testing may be considered for soils identified as non-hazardous, as the tests may enable those materials to be re-classified as inert and therefore represent a potential saving on disposal costs.

With reference to the current List of Wastes (formerly European Waste Catalogue), waste soils and stone derived from construction and demolition sites may be disposed of under either of the following codes as appropriate:

Waste	Code	Description
Hazardous	17 05 03*	soil and stones containing dangerous substances
Non-Hazardous	17 05 04	soil and stones other than those mentioned in 17 05 03

(Note, the asterix is a Mirror Entry, as defined in the List of Wastes, conferring the relationship with the non-hazardous code 17-05-04).

REFERENCES

A number of technical references have been referred to in the preparation of this document, including:

- Smith, I. (2014) Smith's Elements of Soil Mechanics. Chichester. Wiley Blackwell. 9th edition.
- BRE Design Guide 365. Soakaway design ("DG365").
- Radon: Guidance on protective measures for new buildings, BRE Report BR 211, 2023 6th edition.
- The Environment Agency's approach to groundwater protection. February 2018 Version 1.2.
- Water UK and the Home Builders Federation; Contaminated Land Assessment Guidance, dated January 2014.
- Concrete – Complementary British Standard to BS EN 206; Part 1: Method of specifying and guidance for the specifier BS8500-1:2015+A1:2016, dated August 2016.
- Revised EU Waste Framework Directive 2008 2008/98/EC [transposed into English law under The Waste (England and Wales) Regulations 2011].
- European Community (EC) Directive 1999/31/EC [transposed into English law under the Landfill (England and Wales) Regulations 2002].
- Defining Waste Recovery - Permanent Deposit of Waste on Land, EPR13 v1.0, EA 2010.
- The definition of waste: Development Industry Code of Practice, v2, CL:AIRE 2011.
- Guidance on the classification and assessment of waste Technical Guidance WM3 ("WM3") EA publication (1st edition v1.2GB) dated 2021.

REPORT CONDITIONS

The Client

This report may only be used by the client named in section 1 and their appointed project team for the purpose of design, obtaining planning, building regulations approval, and in connection with finance. This report must not be used by any other persons or for other purposes without express written agreement of Land Science.

General

Land Science takes all reasonable professional care in the preparation of this report, using current standards and industry practice. However, the evaluation of ground conditions depends on an interpretation and extrapolation of the conditions revealed by a limited data set. The level of risk is related to the extent of investigation and no site is ever free of risk. The client should understand their risks and liabilities. We accept no liability whatsoever in respect of:

- The scope, extent or design of an investigation.
- Any conditions not directly revealed by the investigation.
- Published standards or methodologies used or adopted in this report.
- The opinion of any other party including any regulator, authority or stakeholder.
- Any dispute, claim or consequential loss arising from any findings of this report.
- Third party information and data.

This report relates solely to ground-related matters as set out in the objectives and makes no representation on other matters such as ecology, arboriculture, invasive plant species, the condition of buildings and structures, hazardous building materials such as insulation or asbestos, the locations of boundaries, unexploded ordnance, and or planning constraints etc. Further reports should be commissioned in this respect as appropriate.

Regulators and Approvals

This (and any other) report should be submitted to relevant authorities for their own assessments and to provide their approval or comments accordingly. This should be in good time before commencing on site in case additional work is to be carried out.

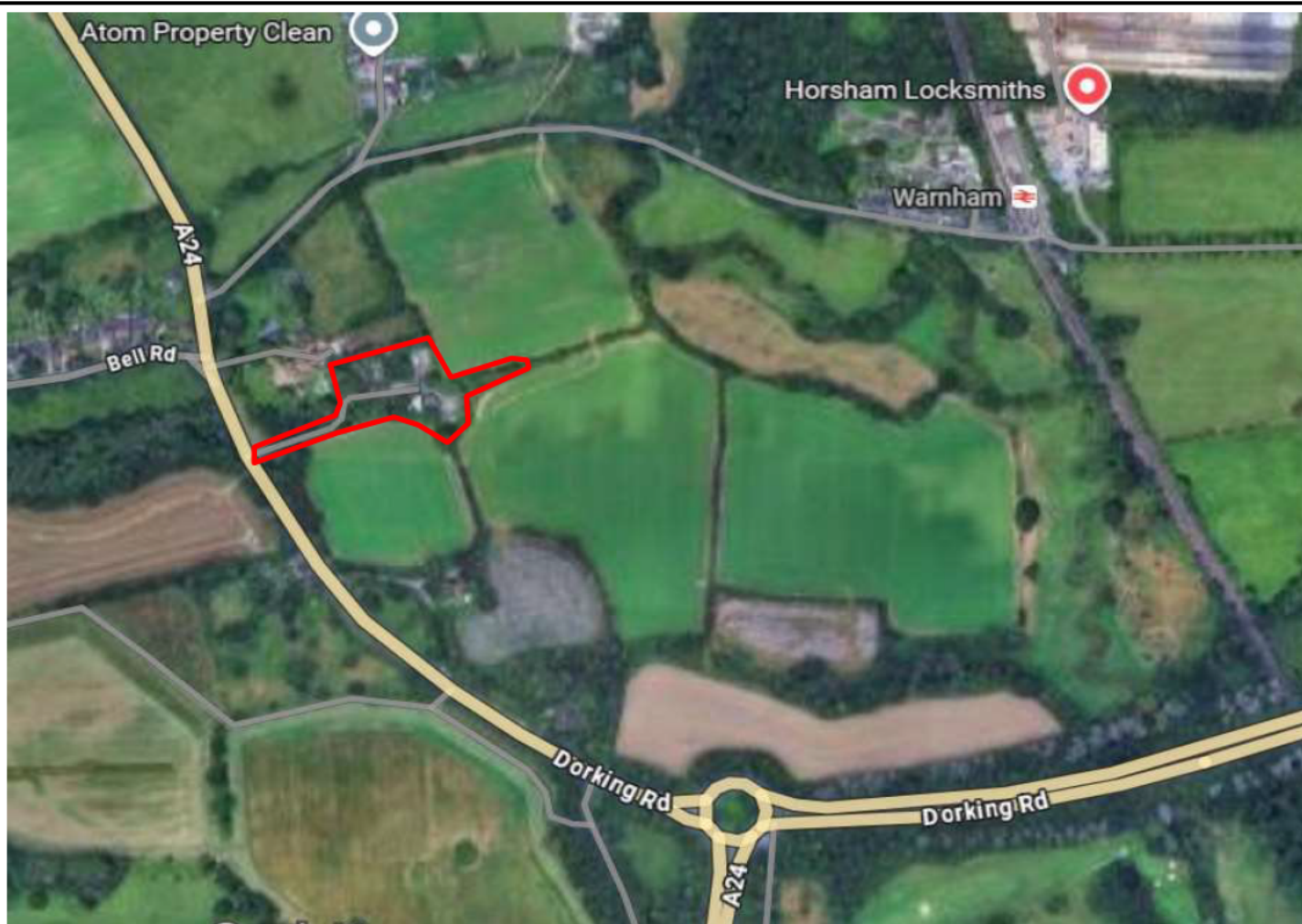
Standards, technical guidance and regulatory positions change over time and may therefore affect the findings and recommendations made in this report; this should be verified by the client prior to any critical project milestones. Where this information is used in design, the designer should verify that the information is appropriate and has been used correctly.

Variations with Time

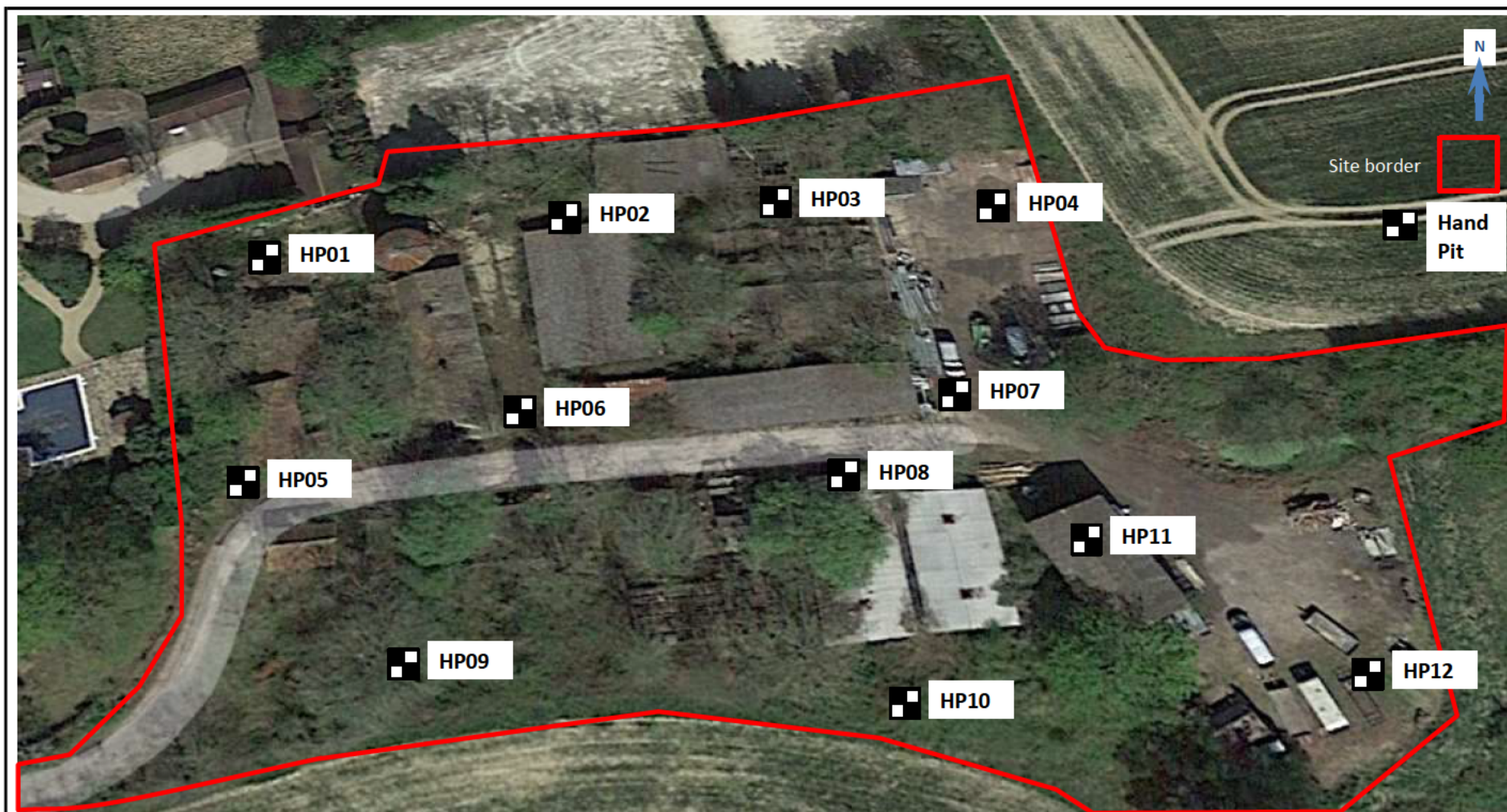
The report relates to conditions revealed at the time of the investigation and any monitoring visits. Some parameters may vary over time or seasonally; groundwater levels, ground gas compositions, or concentrations of contaminants are particularly variable in this respect. Further monitoring or verification should be considered as appropriate.

GLOSSARY OF TERMS

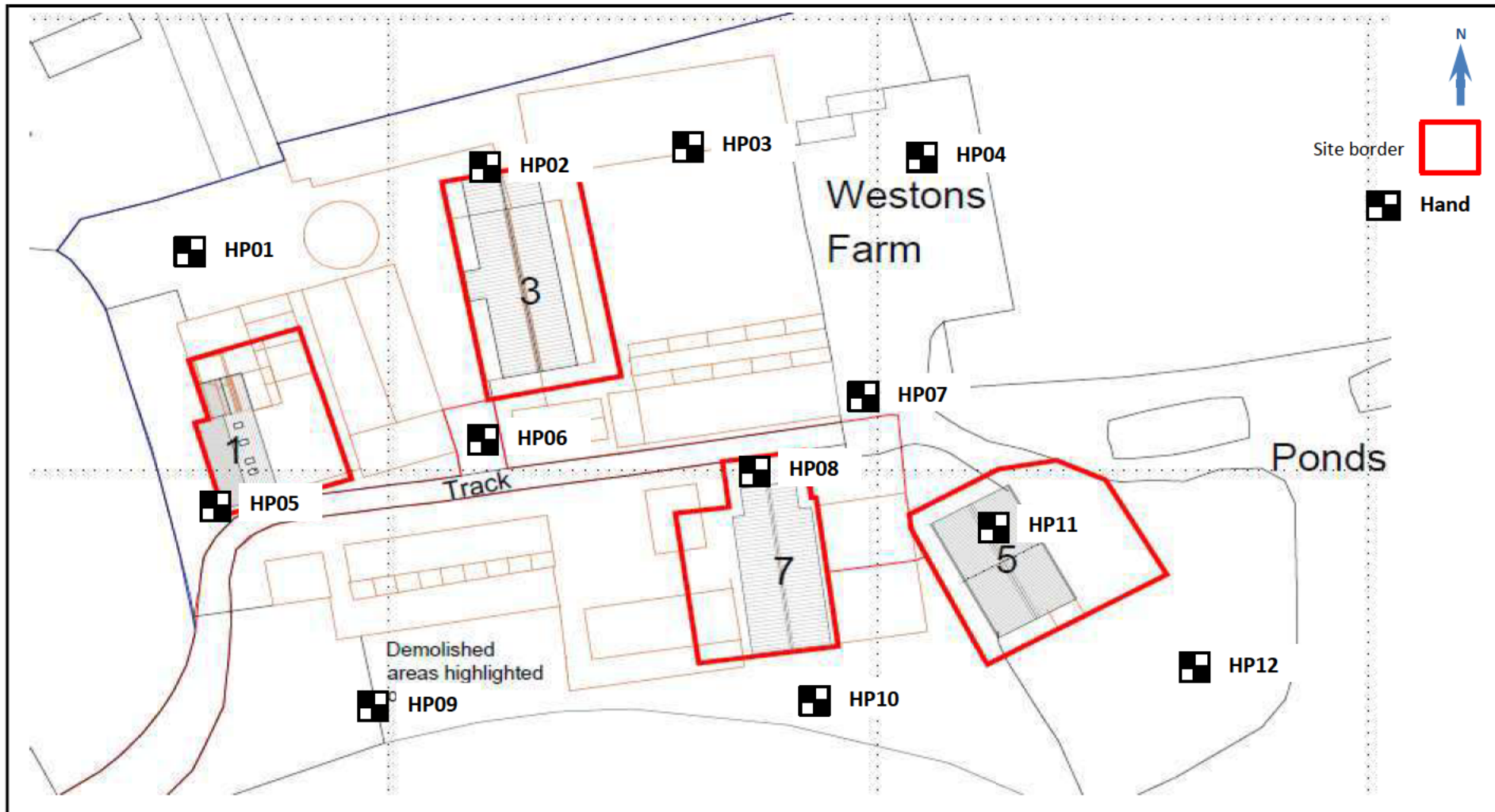
ACM	Asbestos Containing Material
BGS	British Geological Survey
BRE	Building Research Establishment
BS	British Standard
C4SL	Category 4 Screening Level
CBR	California Bearing Ratio
CDM	Construction Design and Management regulations
CIRIA	Construction Industry Research and Information Association
CL:AIRE	Contaminated Land: Applications in Real Environments
CLEA	Contaminated Land Exposure Assessment model
CSM	Conceptual Site Model
EA	Environment Agency
EQS	Environmental Quality Standards
FOC	Fraction of Organic Carbon
GAC	Generic Assessment Criterion
GQRA	Generic Quantitative Risk Assessment
mbgl	Meters Below Ground Level
NHBC	National House Building Council
mOD	Metres above Ordnance Datum
PAHs	Polycyclic Aromatic Hydrocarbons
PHE	Public Health England
PID	Photo-Ionisation Detector
PQRA	Preliminary Quantitative Risk Assessment
PSD	Particle Size Distribution Test
RMS	Remediation Method Statement
S4UL	Suitable for Use Level
SOM	Soil Organic Matter
SPZ	Source Protection Zone
SPT	Standard Penetration Test
SSSI	Sites of Special Scientific Interest
ST-WEL	Short Term Workplace Exposure Limit
SVOCs	Semi-Volatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
TRRL / TRL	Transport Road Research Laboratory
TWA-WEL	Time Weighted Average Workplace Exposure Limit
UK HBF	United Kingdom House Building Federation
VOCs	Volatile Organic Compounds
WAC	Waste Acceptance Criteria



TITLE:	Site Location Plan	REF:	LS8779	PREPARED:	JM
PROJECT:	Westons Farm Trust, Dorking Road, Warnham RH12 3QQ	FIGURE:	1	CHECKED:	MR
CLIENT:	Batchellor Monkhouse	DATE:	17/11/2025	VERSION	V1



TITLE:	Existing Site Plan	REF:	LS8779	PREPARED:	JM
PROJECT:	Westons Farm Trust, Dorking Road, Warnham RH12 3QQ	FIGURE:	2	CHECKED:	MR
CLIENT:	Batchellor Monkhouse	DATE:	01/12/2025	VERSION	V1



TITLE:	Proposed Site Plan	REF:	LS8779	PREPARED:	JM
PROJECT:	Westons Farm Trust, Dorking Road, Warnham RH12 3QQ	FIGURE:	3	CHECKED:	MR
CLIENT:	Batchellor Monkhouse	DATE:	01/12/2025	VERSION	V1

APPENDIX A

Table 6.6 Preliminary Conceptual Site Model and Risk Assessment Methodology

Source (Table 6.2 & Table 6.3)	Potential Contaminant (Table 6.4)	Exposure Pathway (Table 6.1)	Receptor (Table 6.5)	Initial Assessment from Preliminary Investigation Report Information			Comments	Proposed Investigation
				Severity	Probability	Risk		
Agricultural machinery, equipment, silos, Farmlands	Metals, Semi-metals and non- metals, PAHs, asbestos, pesticides and herbicides	Inhalation of dust	Site Workers/Site Maintenance	Mild	Low	Low	Site is partially located (only NW portion) on bedrock of the Horsham Sand Member, which was classified as a Secondary A Aquifer, permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.	Phase II ground investigation to confirm the ground conditions present and chemical testing prior to undertaking a generic quantitative risk assessment.
			End Users	Minor	Unlikely	Very low		
			Off-site Users	Minor	Unlikely	Very low		
On-site historic and current site usage.	PAHs, TPHs	Inhalation of vapour/gases (including Radon)	Site Workers/Site Maintenance	Minor	Unlikely	Very low	Most of the site is located on the Weald Clay Formation which are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.	
			End Users	Minor	Unlikely	Very low		
			Off-site Users	Minor	Unlikely	Very low		
Off-site sources from which potential contamination would have migrated onto the site.	Metals, Semi-metals and non- metals, PAHs, TPHs, pH, pesticides and herbicides	Ingestion and absorption via direct contact	Site Workers/Site Maintenance	Mild	Low	Low		
			End Users	Mild	Low	Low		
			Off-site Users	Mild	Low	Low		
	Metals, Semi-metals and non- metals, PAHs, TPHs, pH, pesticides and herbicides	Migration via surface runoff	Surface Water	Mild	Low	Low		
			Surface Water	Mild	Low	Low		
			Shallow Aquifer	Mild	Low	Low		
			Deep Aquifer	Mild	Low	Low		
	PAHs, TPHs	Direct contact with construction material	Buried Structures	Mild	Low	Low		
			Buried Services	Mild	Low	Low		
Asbestos-containing roofing On-site historic and current site usage.	Asbestos	Inhalation of dust	Site Workers/Site Maintenance	Medium	Likely	Moderate	During demolition, asbestos fibres may potentially be released and inhaled by construction workers.	To consult a Licensed Asbestos Specialist prior to demolition.
			End Users	Minor	Unlikely	Very low		
			Off-site Users	Minor	Unlikely	Very low		
			Building and Confined Spaces	Minor	Unlikely	Very low		
			Off-site Users	Minor	Unlikely	Very low		

APPENDIX B

SITE WALKOVER RECORD



The walkover is restricted only to aspects related to the Land Science report and the stated objectives therein. The walkover does not replace other surveys such as asbestos, arboriculture, ecology, utilities etc which the client should consider. The client should review the walkover and provide any further relevant information where available.

SITE DETAILS			
Project	Westons Farm, Dorking Road, Warnham RH12 3QQ		
Reference	LS8779	Date of walkover	14/11/25
Engineer	Jocelyn Middleton		
CURRENT USE			
Existing land uses	Disused pig farming business but unit 5 still used as agricultural store		
Status	Derelict and unoccupied, except for store in unit 5		
Suspected asbestos	Cement board (possible ACM) noted within roofs of some structures		
Below ground structures	No immediate evidence		
Hardstandings	Access roads and yard areas – mixture of concrete and compacted ground – poor condition and regularly cracked surface		
Soft landscaping	Overgrown with weeds and scrub including nettles and brambles		
General condition	Old, dilapidated and derelict, with pitted and broken tracks and damaged structures – some partially collapsed/ruins		
Boundaries	Mixture of old metal fencing and hedging/tree borders. Difficult to access all areas to confirm as site so overgrown with unstable structures		
Adjacent land uses	West/northwest residential with gardens; north, east and south agricultural		
TOPOGRAPHY			
General lie of the land	Relatively flat area		
General lie of the site	Sensibly flat and level		
Abrupt changes in slope	None recorded		
Excavations and Depressions	No immediate evidence		
Raised ground	No immediate evidence		
GROUND STABILITY			
Signs of landslip	No immediate evidence		
Cracking in buildings and walls etc.	No immediate evidence		
Subsidence on ground surface	No immediate evidence		
GROUND CONDITIONS			
Possible filled-in ground	No immediate evidence		
Possible built-up ground	No immediate evidence		

Exposed soils	<i>No immediate evidence as so overgrown including leaf litter</i>
Desiccation	<i>No immediate evidence</i>
Disturbance	<i>No immediate evidence</i>
WATER CONDITIONS	
Wet boggy ground	<i>No immediate evidence</i>
Wells and ditches	<i>No immediate evidence</i>
Ponds or ponding	<i>No immediate evidence</i>
Streams / Rivers	<i>Drainage ponds to east of site</i>
ECOLOGY	
Burrows	<i>No immediate evidence as so overgrown</i>
VEGETATION	
Reeds or water loving plants	<i>No immediate evidence</i>
Sparse growth or die back	<i>No immediate evidence</i>
Invasive species	<i>No immediate evidence</i>
TREES	
Relevant trees height/species	<i>Mixed small to large trees including coniferous and deciduous trees</i>
Off-site	<i>A few trees to east surrounding drainage ponds and to south between agricultural fields</i>
Hedgerows	<i>Generally between site and agricultural fields</i>
Recent felling and older stumps	<i>No immediate evidence</i>
CONTAMINATION	
Tipped materials	<i>Generally just parts of collapsed structures including roof and doors</i>
Areas of possible fill	<i>No immediate evidence</i>
Discolouration/sheens of waterbodies	<i>No immediate evidence</i>
Surface staining	<i>No immediate evidence</i>
Chemicals storage	<i>No immediate evidence</i>
Drums and tanks	<i>Two metal silos used for grain stores</i>
Petrol interceptor	<i>No immediate evidence</i>
Soakaways	<i>No immediate evidence</i>
LOCAL INFORMATION	
Place/road names	<i>Access east side of Dorking Road</i>
3 rd party information	<i>No immediate evidence</i>
OTHER INFORMATION	

APPENDIX C



TITLE:	Site Photographs	REF:	LS8779	PREPARED:	JM
PROJECT:	Westons Farm Trust, Dorking Road, Warnham RH12 3QQ	SHEET:	1	CHECKED:	MR
CLIENT:	Batchellor Monkhouse	DATE:	01/12/2025	VERSION	V1



TITLE:	Site Photographs	REF:	LS8779	PREPARED:	JM
PROJECT:	Westons Farm Trust, Dorking Road, Warnham RH12 3QQ	SHEET:	2	CHECKED:	MR
CLIENT:	Batchellor Monkhouse	DATE:	01/12/2025	VERSION	V1

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0345 604 6494

UNIT 10, 19 ALBERT DRIVE BURGESS HILL, WEST SUSSEX, RH15 9TN



	TITLE:	Site Photographs	REF:	LS8779	PREPARED:	JM
	PROJECT:	Westons Farm Trust, Dorking Road, Warnham RH12 3QQ	SHEET:	3	CHECKED:	MR
	CLIENT:	Batchellor Monkhouse	DATE:	01/12/2025	VERSION	V1

APPENDIX D

Excavation Method Trial Pit	Dimensions		Ground Level (mOD)		Client Westons Farm Trust	Job Number LS8779
	Location W3W: ///count.likes.practical		Dates 14/11/2025		Engineer Land Science	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.15) 0.15	Dark brown slightly gravelly slightly sandy SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint and brick, with 1no. glass fragment. (TOPSOIL)		
0.30	D				(0.35) 0.35	Brown gravelly slightly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint, brick and clinker. With rare root (<4mm dia) and rare rootlets. (MADE GROUND)		
0.50	D				0.50	Light yellow-grey slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine and medium phosphatic nodules, with rare rootlets to 1.20m and rare specks of organic material. (WEALD CLAY FORMATION)		
0.70	D				(0.70) 0.70			
1.00	D				1.00			
1.20	D				1.20	Complete at 1.20m		

Plan					Remarks		
.	.	.	.	.	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: All samples recorded 0.0ppm.		
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					Scale (approx)	Logged By	Figure No.
					1:20	JM	LS8779.HP01

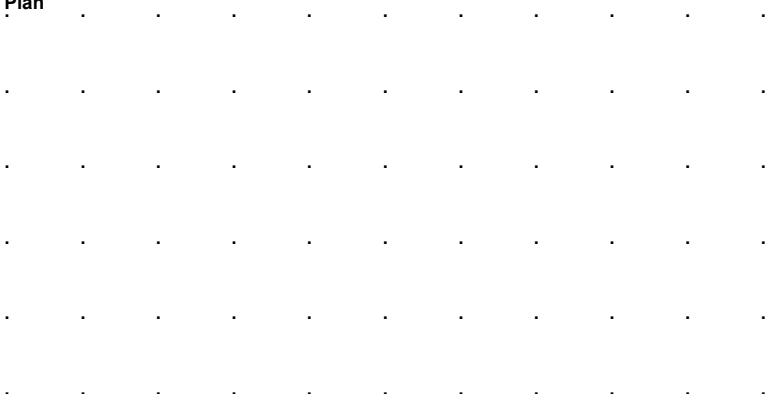
Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Westons Farm Trust		Job Number LS8779	
		Location W3W:///streak.midfield.masterful		Dates 14/11/2025		Engineer Land Science		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.15)	CONCRETE		
					0.15			
					(0.15)	Red-brown silty sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint with rare fine brick fragments, and concrete (from above).		
					0.30	(MADE GROUND)		
					(0.15)			
0.40	D				0.45	Firm to stiff grey to orange-brown slightly sandy silty CLAY. Sand is fine to coarse. Rare brick, flint and concrete fragments. With localised pockets of organic material.		
0.50	HP 75kPa		75 ,75, 75/Av. 75.00			(MADE GROUND)		
0.60	D							
						Stiff brown, yellow-grey mottled brown slightly gravelly silty CLAY, with occasional pockets of red-brown sand. Gravel is subangular to subrounded fine and medium phosphatic nodules.(WEALD CLAY FORMATION)		
0.80	HP 87.5kPa		87.5, 87.5, 87.5/Av. 87.50		(0.75)	0.60m: with rare decomposed organic matter.		
0.90	D					0.90m: with rare black organic matter.		
1.00	HP 100kPa		100, 100, 100/Av. 100.00					
1.10	D					1.10m: with 1no. red-brown siltstone fragment.		
					1.20	Complete at 1.20m		

Plan					Remarks			
.	.	.	.	.	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: All samples recorded 0.0ppm.			
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					Scale (approx)	Logged By	Figure No.	
					1:20	JM	LS8779.HP02	

Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Westons Farm Trust		Job Number LS8779	
		Location W3W:///slick.mondays.gurling		Dates 25/11/2025		Engineer Land Science		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00	D		PID = 0.30ppm		(0.10)	CONCRETE		
0.10	D		PID = 0.20ppm		0.10 (0.20)	Loose yellow-brown gravelly silty SAND. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse flint, rare brick, and concrete fragments (from surface). (MADE GROUND)		
0.30	D		PID = 0.20ppm		0.30 (0.10) 0.40 (0.10) 0.50	Friable brown gravelly sandy CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse flint, with rare brick and coal. (MADE GROUND)		
0.50	D		PID = 0.40ppm		(0.20)	Loose dark grey gravelly sandy clayey SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint, with rare ceramic tile and occasional fine to medium clinker. (MADE GROUND)		
0.70	D		PID = 0.10ppm		0.70	Firm to stiff grey and dark grey locally yellow-brown silty CLAY, with local pockets of dark brown organic matter. (WEALD CLAY FORMATION)		
						Terminated at 0.70m		

Plan 						Remarks Excavating from 0.00m. GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position terminated at 0.70m due to relatively thick gravelly Made Ground and time restraints. PID: See field records.		
						Scale (approx) 1:20	Logged By JM	Figure No. LS8779.HP03

Excavation Method Trial Pit	Dimensions		Ground Level (mOD)	Client Westons Farm Trust	Job Number LS8779
	Location		Dates 25/11/2025	Engineer Land Science	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D		PID = 0.20ppm		(0.10) 0.10	CONCRETE		
0.30	D		PID = 0.40ppm		(0.20) 0.30	Loose grey-brown silty sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to medium flint, concrete, hardcore with rare fine coal fragments. (MADE GROUND)		
0.35	D		PID - 0.20ppm			Firm yellow locally grey locally slightly sandy CLAY. Sand is fine to coarse. (WEALD CLAY FORMATION)		
0.50	D		PID = 0.20ppm					
0.70	D		PID = 0.30ppm		(0.90)	0.70m: becoming yellow-grey and light grey.		
1.00	D		PID = 0.20ppm			1.00-1.20m: with rare pockets of brown partially decomposed organic matter.		
			PID = 0.30ppm		1.20	Complete at 1.20m		

Plan					Remarks			
.	.	.	.	.	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: See field records.			
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					Scale (approx)	Logged By	Figure No.	
					1:20	JM	LS8779.HP04	

Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Westons Farm Trust		Job Number LS8779	
		Location W3W: ///trifling.fountain.investors		Dates 14/11/2025		Engineer Land Science		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				0.05 (0.25)	Dark brown slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is fine to medium brick, flint with plastic fragment. (MADE GROUND)		
0.40	D				0.30 (0.30)	Dark brown silty GRAVEL. Gravel is angular to subrounded fine to coarse brick, flint and rock fragments, with rare root (3mm dia) and abundant rootlets. (MADE GROUND)		
0.65 0.70	D HP 150kPa		150, 150, 150/Av. 150.00		0.60	Light yellow-grey locally orange gravelly slightly sandy silty CLAY. Sand is subangular to subrounded fine to coarse including cobbles of sandstone and brick. (MADE GROUND)		
0.90	D				(0.60)	Stiff friable yellow-grey mottled yellow and brown silty CLAY, with rare black specks, with local pockets of yellow sand. (WEALD CLAY FORMATION)		
1.20	D				1.20	Complete at 1.20m		

Plan					Remarks			
.	.	.	.	.	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: All samples recorded 0.0ppm.			
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					Scale (approx) 1:20		Logged By JM	
							Figure No. LS8779.HP05	

Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Westons Farm Trust		Job Number LS8779	
		Location W3W: ///slips.splash.initiated		Dates 14/11/2025		Engineer Land Science		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D		PID = 0.1ppm		(0.17)	CONCRETE.		
0.40	D		PID = 0.0ppm		0.17			
0.40	HP 75kPa		75, 75, 75/Av. 75.00		(0.13)	Dark brown silty gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse including cobbles of brick, concrete, flint and clinker fragments. With rare roots (2mm dia). (MADE GROUND)		
0.60	D		PID = 0.1-0.2ppm		0.30			
0.60	HP 25kPa		25, 25, 25/Av. 25.00			Firm locally soft yellow-grey to brown-grey slightly gravelly silty CLAY, with occasional pockets of sand. Gravel is subangular to subrounded fine phosphatic nodules with localised iron staining. (WEALD CLAY FORMATION)		
0.80	HP 75kPa		75, 75, 75/Av. 75.00		(0.90)	0.40m: with rare rootlets. 0.50-0.70m: dark grey silt/clay with pockets of brown/black organic material.		
0.90	D		PID = 0.0ppm					
1.20	D		PID = 0.0ppm		1.20	1.20m: becoming grey and brown. Complete at 1.20m		

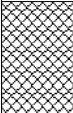
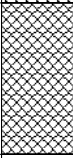
Plan					Remarks			
.	.	.	.	.	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: See field records.			
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					Scale (approx)		Logged By	Figure No.
					1:20		JM	LS8779.HP06

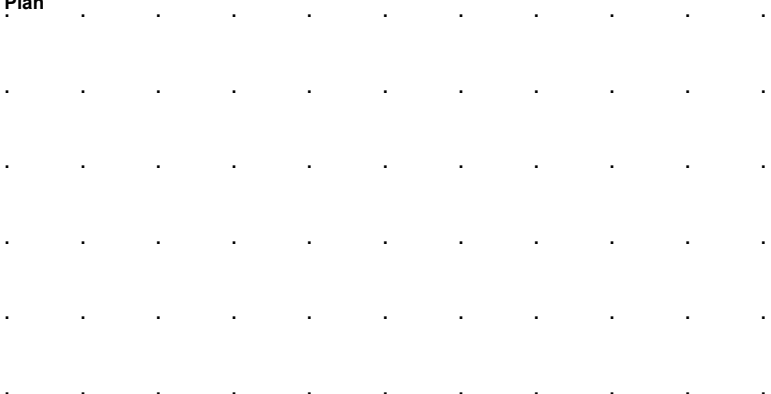
Excavation Method Trial Pit	Dimensions		Ground Level (mOD)		Client Westons Farm Trust	Job Number LS8779
	Location		Dates 25/11/2025		Engineer Land Science	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D		PID = 0.20ppm		(0.10) 0.10	Loose dark brown/black clayey silty sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse concrete, occasional brick and clinker, 1no. ceramic tile, and rare root (1mm dia). (MADE GROUND)		
0.30	D		PID = 0.10ppm		0.30	Loose/friable brown sandy silty clayey GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse brick, with rare chalk and concrete fragments. (MADE GROUND)		
0.50	D		PID = 0.10ppm			Firm light grey and yellow becoming orange-brown CLAY (WEALDEN CLAY FORMATION)		
0.70	D		PID = 0.40ppm		(0.90)	0.70m: with pockets of organic matter.		
1.00	D		PID = 0.30ppm			1.00-1.20m: with rare weathered sandstone fragments.		
1.20	D		PID = 0.50ppm		1.20	Complete at 1.20m		

Plan					Remarks		
.	.	.	.	.	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: See field record.		
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					Scale (approx)	Logged By	Figure No.
					1:20	JM	LS8779.HP08

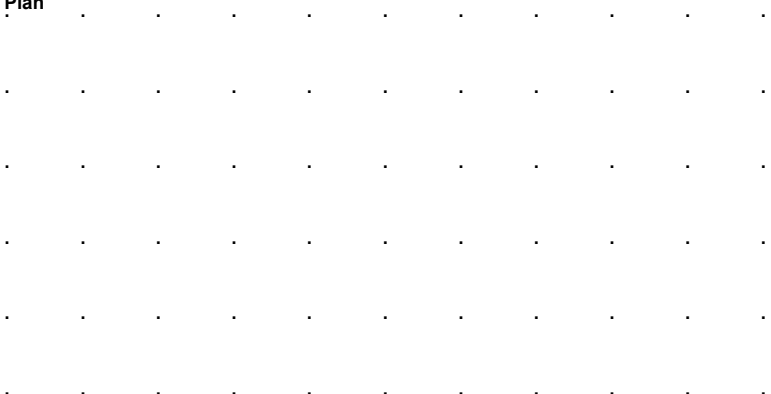
Excavation Method Trial Pit	Dimensions		Ground Level (mOD)	Client Westons Farm Trust	Job Number LS8779
	Location W3W: ///noting.bugs.tolerable		Dates 14/11/2025	Engineer Land Science	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.30)	Dark brown/black silty sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse flint, clinker and ballast and 1no. brick fragments. (MADE GROUND)		
0.30	D				0.30 (0.40)	Off-white/grey silty GRAVEL. Gravel is angular to subrounded fine and medium chalk with occasional black fine ballast (from above). (REWORKED FILL)		
0.70	D				0.70 (0.50)	Firm to stiff orange and grey CLAY, with rare weathered mudstone fragments and black specks and partially decomposed rootlets. (WEALD CLAY FORMATION)		
1.00	D					1.00m: grey and orange-brown slightly sandy clay with rare roots (2mm dia)		
1.20	D				1.20	Complete at 1.20m		

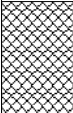
Plan 	Remarks		
	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: All samples recorded 0.0ppm.		
	Scale (approx) 1:20	Logged By JM	Figure No. LS8779.HP09

Excavation Method Trial Pit	Dimensions		Ground Level (mOD)	Client Westons Farm Trust	Job Number LS8779
	Location W3W: ///stars.trespass.frost		Dates 14/11/2025	Engineer Land Science	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.30)	Brown and off-white slightly gravelly slightly sandy SILT/CLAY. Sand is fine to coarse. Gravel is subangular chalk and siltstone, with rare root (1mm dia) and occasional rootlets and 1no. wooden fragment. (REWORKED FILL)		
0.30	D				0.30 (0.20)	Brown and off-white slightly gravelly slightly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chalk and rare fine brick, with abundant rootlets. (REWORKED FILL)		
0.50	D				0.50 (0.10)	Brown and off-white/grey gravelly slightly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse chalk, with abundant rootlets. (REWORKED FILL)		
0.70	D				0.60 (0.60)	Friable orange-brown becoming grey-yellow slightly sandy CLAY. Sand is fine to coarse. Locally with pockets of brown sand. With rare rootlets and partially decomposed organic matter. (WEALD CLAY FORMATION)		
1.00	D							
1.20	D				1.20	Complete at 1.20m		

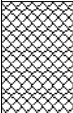
Plan 	Remarks		
	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: All samples recorded 0.0ppm.		
	Scale (approx) 1:20	Logged By JM	Figure No. LS8779.HP10

Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Westons Farm Trust		Job Number LS8779	
		Location W3W: ///geologist.scrapping.prickly		Dates 14/11/2025		Engineer Land Science		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D		PID = 0.0ppm		(0.30)	Dark grey and off-white/grey sandy silty GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chalk and asphalt fragments. (MADE GROUND)		
0.30	D		PID = 0.0ppm		0.30	Firm to stiff friable orange-brown CLAY with rare weathered mudstone fragments. (WEALD CLAY FORMATION)		
0.50	D		PID = 0.0ppm		(0.40)			
0.70	D		PID = 0.0ppm		0.70	Firm to stiff friable grey locally orange CLAY, with weathered mudstone fragments. (WEALD CLAY FORMATION)		
1.00	D		PID = 0.1ppm		(0.50)			
1.20	D		PID = 0.0ppm		1.20	Complete at 1.20m		

Plan					Remarks			
.	.	.	.	.	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: See field records.			
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					Scale (approx)	Logged By	Figure No.	
					1:20	JM	LS8779.HP11	

Excavation Method Trial Pit		Dimensions		Ground Level (mOD)		Client Westons Farm Trust		Job Number LS8779	
		Location		Dates 25/11/2025		Engineer Land Science		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D		PID = 0.10ppm		(0.30)	Loose brown gravelly silty SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse concrete, brick and clinker/coal. (MADE GROUND)		
0.30	D		PID = 0.00ppm		0.30	Firm yellow and light grey CLAY. (WEALD CLAY FORMATION) 0.30m: with 1no. geotextile fragment.		
0.50	D		PID = 0.00ppm					
0.70	D		PID = 0.00ppm		(0.90)	0.70m: with local brown organic matter.		
1.00	D		PID = 0.10ppm			1.00-1.20m: with local brown fine to medium lithorelics.		
1.20	D		PID = 0.20ppm		1.20	Complete at 1.20m		

Plan					Remarks			
.	.	.	.	.	GROUNDWATER: Not encountered. STABILITY: Slight spalling. BACKFILL: Arisings. NOTES: Position completed at target depth. PID: See field records.			
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					Scale (approx)		Logged By	Figure No.
					1:20		JM	LS8779.HP12

APPENDIX E



SML Laboratories Ltd
Unit E1, Rosebury Business Park
Brampton Road
Eastbourne BN22 9BN
Tel: 01323 302280
Email: cs@sml-laboratories.co.uk

Analytical Report: 25-000270

Customer: Land Science

Address: Unit 10, Albert Drive, Burgess Hill, RH15 9TN

Name: Jocelyn Middleton

Project: Westons Farm, Dorking Road, Warnham

Customer ref: LS8779

Quote ref: -

Sampling date: 14/11/2025

Samples received: 19/11/2025

Instructions received: 19/11/2025

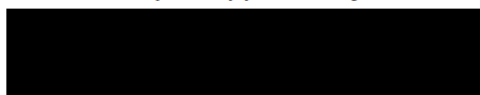
Report issued: 02/12/2025

Report issue number: 2

Issue 2 - Amendment Note

Pesticide and Herbicide results added.
This report supercedes Issue 1

Report Approved By



Graham Knight – Laboratory Operations Manger

Sample Summary

Analytical Report: 25-000270 issue 2

SML No.	Client's Ref	Depth (m)	Date Sampled	Date Scheduled	Description	Deviations
2322	HP01	0.1	14/11/2025	19/11/25	Silt Loam	-
2323	HP02	0.4	14/11/2025	19/11/25	Silty Clay	-
2324	HP05	0.1	14/11/2025	19/11/25	Silt Loam	-
2325	HP06	0.2	14/11/2025	19/11/25	Loamy Sand	-
2326	HP09	0.1	14/11/2025	19/11/25	Sandy Clay Loam	-
2327	HP10	0.3	14/11/2025	19/11/25	Silty Clay Loam	-
2328	HP11	0.5	14/11/2025	19/11/25	Silty Clay	-

Analytical Report: 25-000270 issue 2

SML Ref	2322	2323	2324	2325	2326	2327	2328
Customer Ref	LS8779	LS8779	LS8779	LS8779	LS8779	LS8779	LS8779
Sample ID	HP01	HP02	HP05	HP06	HP09	HP10	HP11
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Location	HP01	HP02	HP05	HP06	HP09	HP10	HP11
Sample Depth (m)	0.1	0.4	0.1	0.2	0.1	0.3	0.5
Sampling Date	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025

Determinant	Codes	Units	LOD
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Soil preparation parameters

Moisture Content	N	%	0.1	21.4	22.2	12.6	18.0	11.1	26.8	21.9
Material removed	N	%	0.1	44.1	3.5	81.4	68.8	76.5	0	0
Description of inert material removed	N	N/A	N/A	Stones, Roots	Stones	Stones, Clinker	Stones, Clinker	Stones, Clinker	None	None

Metals

Beryllium	N	mg/kg	0.5	0.7	1.2	0.8	1.8	0.8	<0.5	0.7
Vanadium	N	mg/kg	1	23.8	33.3	27.5	68.3	41.4	22.9	36.9
Chromium	N	mg/kg	1	15.6	21.1	18.2	27.5	21.5	19.0	29.5
Nickel	N	mg/kg	1	17.7	33.0	20.4	39.9	16.6	15.7	17.0
Copper	N	mg/kg	1	29.9	28.6	56.0	72.7	26.4	104.0	26.6
Zinc	N	mg/kg	1	106.0	86.8	193.0	145.0	97.5	493.0	65.5
Arsenic	N	mg/kg	1	12.6	20.2	12.4	25.8	10.4	6.8	7.6
Selenium	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
Cadmium	N	mg/kg	0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.6	<0.5
Barium	N	mg/kg	1	73.6	159.0	134.0	194.0	133.0	78.3	57.9
Mercury	N	mg/kg	0.5	<0.5	<0.5	1.31	<0.5	<0.5	<0.5	<0.5
Lead	N	mg/kg	1.0	84.9	56.1	99.8	50.5	41.1	34.8	15.0

Inorganics

Total Cyanide	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
Hexavalent Chromium	N	mg/kg	5	<5	<5	<5	<5	<5	<5	<5
Fraction Organic Carbon	N	%	0.005	0.073	0.009	0.056	0.018	0.041	0.028	<0.005
Sulphide	N	mg/kg	2	<2	<2	<2	<2	<2	<2	<2
Water Soluble Boron	N	mg/kg	0.02	1.28	1.26	1.51	1.06	1.37	0.73	1.22

Miscellaneous

pH	N	pH Units	0.01	7.71	8.09	8.15	10.79	8.85	7.48	8.16
Water Soluble Sulphate (2:1)	N	mg/kg	40	78	92	118	128	<40	<40	133
Water Soluble Sulphate (2:1)	N	g/l	0.02	0.04	0.05	0.06	0.06	<0.02	<0.02	0.07
Water Soluble Sulphate (2:1)	N	mg/l	20	39	46	59	64	<20	<20	67

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SML Ref	2322	2323	2324	2325	2326	2327	2328
Customer Ref	LS8779	LS8779	LS8779	LS8779	LS8779	LS8779	LS8779
Sample ID	HP01	HP02	HP05	HP06	HP09	HP10	HP11
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Location	HP01	HP02	HP05	HP06	HP09	HP10	HP11
Sample Depth (m)	0.1	0.4	0.1	0.2	0.1	0.3	0.5
Sampling Date	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025

Determinant	Codes	Units	LOD
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Phenols

Phenol	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
M,P-Cresol	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
O-Cresol	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
3,4-Dimethylphenol	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
2,3-Dimethylphenol	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
Napthol	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
2,3,5-Trimethylphenol	N	mg/kg	1	<1	<1	<1	<1	<1	<1	<1
Total Monohydric Phenols	N	mg/kg	7	<7	<7	<7	<7	<7	<7	<7

Polyaromatic Hydrocarbons

Napthalene	N	mg/kg	0.02	<0.02	<0.02	0.57	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	N	mg/kg	0.02	0.32	<0.02	2.35	0.24	0.30	<0.02	<0.02
Acenaphthene	N	mg/kg	0.02	0.05	0.04	0.66	0.04	0.47	0.03	<0.02
Fluorene	N	mg/kg	0.02	<0.02	<0.02	0.88	<0.02	0.58	<0.02	<0.02
Phenanthrene	N	mg/kg	0.02	1.00	0.26	12.10	0.42	4.40	0.31	<0.02
Anthracene	N	mg/kg	0.02	0.37	<0.02	4.85	0.35	<0.02	<0.02	<0.02
Fluoranthene	N	mg/kg	0.02	1.54	0.33	32.60	0.79	7.30	0.47	0.32
Pyrene	N	mg/kg	0.02	1.36	0.39	29.00	0.76	5.79	0.51	<0.02
Benzo(a)anthracene	N	mg/kg	0.02	<0.02	0.65	21.80	0.87	3.57	0.74	<0.02
Chrysene	N	mg/kg	0.02	<0.02	0.52	20.40	0.82	4.09	0.63	0.50
Benzo(b)fluoranthene	N	mg/kg	0.02	1.31	0.68	29.40	1.03	7.41	<0.02	<0.02
Benzo(k)fluoranthene	N	mg/kg	0.02	0.95	0.57	15.20	0.75	3.44	<0.02	<0.02
Benzo(a)pyrene	N	mg/kg	0.02	1.04	<0.02	29.20	0.81	6.80	<0.02	<0.02
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.02	1.46	<0.02	23.10	0.94	7.13	<0.02	<0.02
Dibenzo(a,h)anthracene	N	mg/kg	0.02	0.35	<0.02	7.23	<0.02	1.89	<0.02	<0.02
Benzo[g,h,i]perylene	N	mg/kg	0.02	1.01	0.41	20.30	0.69	7.74	<0.02	<0.02
Coronene	N	mg/kg	0.02	0.70	<0.02	6.10	<0.02	2.16	<0.02	<0.02
Total PAH(17)	N	mg/kg	0.34	11.47	3.85	255.73	8.50	63.07	2.69	0.82

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SML Ref	2322	2323	2324	2325	2326	2327	2328
Customer Ref	LS8779	LS8779	LS8779	LS8779	LS8779	LS8779	LS8779
Sample ID	HP01	HP02	HP05	HP06	HP09	HP10	HP11
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Location	HP01	HP02	HP05	HP06	HP09	HP10	HP11
Sample Depth (m)	0.1	0.4	0.1	0.2	0.1	0.3	0.5
Sampling Date	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025

Determinant	Codes	Units	LOD
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VOC

Benzene	N	ug/kg	0.01	-	<0.01	-	-	-	<0.01	-
Toluene	N	ug/kg	0.01	-	<0.01	-	-	-	<0.01	-
Ethylbenzene	N	ug/kg	0.01	-	<0.01	-	-	-	<0.01	-
m&p Xylene	N	ug/kg	0.02	-	<0.02	-	-	-	<0.02	-
o-Xylene	N	ug/kg	0.01	-	<0.01	-	-	-	<0.01	-
MTBE	N	ug/kg	0.01	-	<0.01	-	-	-	<0.01	-
Total BTEX	N	ug/kg	0.07	-	<0.07	-	-	-	<0.07	-

TPH

Total TPH (C10 – C40)	N	mg/kg	1	26.6	<1	117	8.7	601	97.1	42.0
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SML Ref	2326
Customer Ref	LS8779
Sample ID	HP09
Sample Type	Soil
Sample Location	HP09
Sample Depth (m)	0.1
Sampling Date	14/11/2025

Determinant	Codes	Units	
4,4'-DDD (p,p'-DDD)	N	mg/kg	< 0.1
4,4'-DDE (p,p'-DDE)	N	mg/kg	< 0.1
4,4'-DDT (p,p'-DDT)	N	mg/kg	< 0.3
Aldrin	N	mg/kg	< 0.3
alpha-BHC	N	mg/kg	< 0.1
beta-BHC	N	mg/kg	< 0.1
cis-Chlordane	N	mg/kg	< 0.1
delta-BHC	N	mg/kg	< 0.1
Dieldrin	N	mg/kg	< 0.3
Endosulfan I	N	mg/kg	< 0.3
Endosulfan II	N	mg/kg	< 0.3
Endosulfan Sulfate	N	mg/kg	< 0.3
Endrin	N	mg/kg	< 0.3
gamma-BHC (Lindane)	N	mg/kg	< 0.1
Heptachlor	N	mg/kg	< 0.1
Heptachlor Epoxide	N	mg/kg	< 0.3
Methoxychlor	N	mg/kg	< 0.3
trans-Chlordane	N	mg/kg	< 0.1
Azinphos Methyl (Guthion)	N	mg/kg	
Chlorpyrifos (Dursban)	N	mg/kg	
Coumaphos	N	mg/kg	
Demeton O & S	N	mg/kg	
Diazinon	N	mg/kg	
Dichlorvos (DDVP) (Dichlorophos)	N	mg/kg	
Dimethoate	N	mg/kg	
Disulfoton	N	mg/kg	
Endrin Aldehyde	N	mg/kg	
Endrin Ketone	N	mg/kg	
EPN	N	mg/kg	
Ethoprophos	N	mg/kg	
Fenchlorphos (Ronnel)	N	mg/kg	
Fensulfothion	N	mg/kg	
Fenthion	N	mg/kg	
Malathion (Carbophos)	N	mg/kg	
Methyl parathion	N	mg/kg	
Mevinphos	N	mg/kg	
Monocrotophos	N	mg/kg	
Naled	N	mg/kg	
Parathion (Ethyl Parathion)	N	mg/kg	
Phorate	N	mg/kg	
Prothiofos (Tokuthion)	N	mg/kg	
Sulfotep (Dithion)	N	mg/kg	
Sulprofos (Bolstar)	N	mg/kg	
TEPP (Tetraethylpyrophosphate)	N	mg/kg	
Tetrachlorovinphos (Stirifos)	N	mg/kg	
Trichloronate	N	mg/kg	
Permethrin	N	mg/kg	< 0.3

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SML Ref	2326
Customer Ref	LS8779
Sample ID	HP09
Sample Type	Soil
Sample Location	HP09
Sample Depth (m)	0.1
Sampling Date	14/11/2025

Determinant	Codes	Units	
Ametryn	N	mg/kg	< 0.001
Atrazine	N	mg/kg	< 0.001
Prometryn	N	mg/kg	< 0.001
Propazine	N	mg/kg	< 0.001
Simazine	N	mg/kg	< 0.001
Terbuthylazine	N	mg/kg	< 0.001
Terbutryn	N	mg/kg	< 0.001
Atraton	N	mg/kg	< 0.001
Simetryn	N	mg/kg	< 0.001
Prometon	N	mg/kg	< 0.001
2,4,5-T	N	mg/kg	< 0.01
2,4-D	N	mg/kg	< 0.01
Dichlorprop	N	mg/kg	< 0.01
Fenoprop	N	mg/kg	< 0.01
Mecoprop	N	mg/kg	< 0.01
4-CPA	N	mg/kg	< 0.01
2,4-DB	N	mg/kg	< 0.01
MCPA	N	mg/kg	< 0.01
MCPB	N	mg/kg	< 0.01
Triclopyr	N	mg/kg	< 0.01
Carbetamide	N	mg/kg	< 0.001
Chlorbufam	N	mg/kg	< 0.001
Ethiofencarb	N	mg/kg	< 0.001
Phenmediphan	N	mg/kg	< 0.001
Pirimicarb	N	mg/kg	< 0.001
Carbendazim	N	mg/kg	< 0.001
Bromacil	N	mg/kg	< 0.001
Cyanazine	N	mg/kg	< 0.001
Carbaryl	N	mg/kg	< 0.001
Methiocarb	N	mg/kg	< 0.001
Chloroxuron	N	mg/kg	< 0.001
Chlortoluron	N	mg/kg	< 0.001
Diflubenzuron	N	mg/kg	< 0.001
Dimefuron	N	mg/kg	< 0.001
Diuron	N	mg/kg	< 0.001
Isoproturon	N	mg/kg	< 0.001
Linuron	N	mg/kg	< 0.001
Methabenzthiazuron	N	mg/kg	< 0.001
Metoxuron	N	mg/kg	< 0.001
Monolinuron	N	mg/kg	< 0.001
Monuron	N	mg/kg	< 0.001
Pencycuron	N	mg/kg	< 0.001

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WAC Analysis

SML Ref:	2323				Landfill WAC Limits*		
Sample Date:	14/11/2025				Inert Waste Landfill	Stable non- Reactive Hazardous Waste in non- Hazardous Landfill	Hazardous Waste Landfill
Sample ID:	HP02						
Depth (m):	0.40						
Site:	Westons Farm						
Determinand	Code	Units					
Total Organic Carbon	N	%		0.9	3	5	6
Loss on Ignition	N	%		4.33	-	-	10
Total BTEX	N	mg/kg		<0.07	6	-	-
Total PCB (7 congeners)	N	mg/kg		<0.028	1	-	-
TPH Total WAC (EH_CU_1D_Total)	N	mg/kg		<10	500	-	-
pH	N	Units		8.09	-	>6	-
Acid Neutralisation Capacity	N	mol/kg		0.05	-	-	-
Eluate Analysis		10:1		10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
		mg/l		mg/kg			
Arsenic	N	0.0008		0.008	0.5	2	25
Barium	N	0.0012		0.012	20	100	300
Cadmium	N	0.0024		0.024	0.04	1	5
Chromium	N	0.0052		0.052	0.5	10	70
Copper	N	0.0007		0.007	2	50	100
Mercury	N	0.0003		0.003	0.01	0.2	2
Molybdenum	N	<0.0005		<0.005	0.5	10	30
Nickel	N	<0.0005		<0.005	0.4	10	40
Lead	N	<0.0005		<0.005	0.5	10	50
Antimony	N	0.0165		0.165	0.06	0.7	5
Selenium	N	<0.0005		<0.005	0.1	0.5	7
Zinc	N	<0.0005		<0.005	4	50	200
Chloride	N	4.88		48.8	800	15000	25000
Fluoride	N	<0.5		<5	10	150	500
Sulphate	N	10.1		100.8	1000	20000	50000
Total Dissolved Solids	N	86.9		869	4000	60000	100000
Phenol Index	N	<0.01		<0.1	1	-	25
Dissolved Organic Carbon	N	17.95		179.5	500	800	1000

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

*Stated limits are for guidance only, and not for conformity assessment.

Analytical Report: 25-000270 issue 2

WAC Analysis

SML Ref:	2327				Landfill WAC Limits*		
Sample Date:	14/11/2025				Inert Waste Landfill	Stable non- Reactive Hazardous Waste in non- Hazardous Landfill	Hazardous Waste Landfill
Sample ID:	HP10						
Depth (m):	0.30						
Site:	Westons Farm						
Determinand	Code	Units					
Total Organic Carbon	N	%		2.80	3	5	6
Loss on Ignition	N	%		8.53	-	-	10
Total BTEX	N	mg/kg		<0.07	6	-	-
Total PCB (7 congeners)	N	mg/kg		<0.028	1	-	-
TPH Total WAC (EH_CU_1D_Total)	N	mg/kg		<10	500	-	-
pH	N	Units		7.48	-	>6	-
Acid Neutralisation Capacity	N	mol/kg		0.05	-	-	-
Eluate Analysis		10:1		10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
		mg/l		mg/kg			
Arsenic	N	0.0010		0.010	0.5	2	25
Barium	N	0.0021		0.021	20	100	300
Cadmium	N	0.0183		0.183	0.04	1	5
Chromium	N	0.0253		0.253	0.5	10	70
Copper	N	0.0019		0.019	2	50	100
Mercury	N	0.0002		0.002	0.01	0.2	2
Molybdenum	N	<0.0005		<0.005	0.5	10	30
Nickel	N	<0.0005		<0.005	0.4	10	40
Lead	N	<0.0005		<0.005	0.5	10	50
Antimony	N	0.0054		0.054	0.06	0.7	5
Selenium	N	<0.0005		<0.005	0.1	0.5	7
Zinc	N	0.0010		0.010	4	50	200
Chloride	N	3.80		38.0	800	15000	25000
Fluoride	N	<0.5		<5	10	150	500
Sulphate	N	3.04		30.4	1000	20000	50000
Total Dissolved Solids	N	111.2		1112	4000	60000	100000
Phenol Index	N	<0.01		<0.1	1	-	25
Dissolved Organic Carbon	N	14.08		140.8	500	800	1000

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

*Stated limits are for guidance only, and not for conformity assessment.

Analytical Report: 25-000270 issue 2

Asbestos Screening

SML Sample Reference	Client Reference	Depth (m)	Sample Matrix Description	Asbestos Identification	Gravimetric Analysis Total %	Gravimetric Analysis by ACM Type %	Free fibre Analysis %	Total Asbestos %
2322	HP01	0.1	Soil	NAD	N/A	N/A	N/A	N/A
2323	HP02	0.4	Soil	NAD	N/A	N/A	N/A	N/A
2324	HP05	0.1	Soil	NAD	N/A	N/A	N/A	N/A
2325	HP06	0.2	Soil	NAD	N/A	N/A	N/A	N/A
2326	HP09	0.1	Soil	NAD	N/A	N/A	N/A	N/A
2327	HP10	0.3	Soil	NAD	N/A	N/A	N/A	N/A
2328	HP11	0.5	Soil	NAD	N/A	N/A	N/A	N/A

NAD - No Asbestos Detected

N/T - Not tested

Analytical Report: 25-000270 issue 2

Method Summary

Soil					
Parameter	Codes	Undertaken On	Date Tested	Method Number	Technique
pH value	N	Air dried sample	25/11/25	105	Electrometric
Water Soluble Sulphate	N	Air dried sample	25/11/25	130	Ion Chromatography
Total Cyanide	N	As submitted sample	20/11/25	137	Colorimetric
Phenols	N	As submitted sample	18/11/25	111	HPLC
Asbestos ID	SU	Subcontracted	27/11/25	Subcontracted	Microscopy
Loss On Ignition	N	Air dried sample	19/11/25	115	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	25/11/25	150	Electrometric
Hexavalent Chromium	N	As submitted sample	20/11/25	103	Colorimetric
Total (of 16) PAH	N	As submitted sample	20/11/25	116	GC-MS
Total BTEX	N	As submitted sample	24/11/25	134	GC-MS
Sulphide	N	As submitted sample	25/11/25	117	Discrete Analyser
TOC	N	Air dried sample	25/11/25	139	Titration
Water Soluble Boron	N	Air dried sample	25/11/25	136	Discrete Analyser
Total Metals	N	Air dried sample	25/11/25	148	GC-FID
PCB 7 Congeners	N	Air dried sample	25/11/25	110	GC-MS
Mineral Oil (EH_CU_1D-Total)	N	As submitted sample	20/11/25	128	GC-FID
GC Pesticides	N	As submitted sample	-	Subcontracted	GC-MS
LC Acid Herbicides	N	As submitted sample	-	Subcontracted	GC-MS

Leachate					
Parameter	Codes	Undertaken On	Date Tested	Method Number	Technique
Anions	N	10:1 WAC leachate	26/11/25	152	Ion Chromatography
Dissolved Metals	N	10:1 WAC leachate	26/11/25	149	ICP-MS
Phenols	N	10:1 WAC leachate	26/11/25	111	HPLC
Electrical Conductivity	N	10:1 WAC leachate	26/11/25	118	Probe
DOC	N	10:1 WAC leachate	26/11/25	101	TOC Analyser
TDS	N	10:1 WAC leachate	26/11/25	In-House	Calculation

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Key

Symbol	Description
U	Hold UKAS accreditation
M	Hold MCERTS accreditation
N	Not accredited
NS	Sample matrix not UKAS accredited
NM	Sample matrix not MCERTS accredited
SU	Subcontracted to a UKAS accredited laboratory
SM	Subcontracted to an MCERTS accredited laboratory
IS	Insufficient sample
US	Unsuitable sample
NT	Not tested
NAD	No asbestos detected
<	Less than
>	Greater than

Soil samples are expressed on an air dried <30°C basis and are **not** corrected for inert material removed.

LOD refers to limit of detection, except in the case of pH where it refers to limit of discrimination.



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Analytical Report: 25-000310

Customer: Land Science
Address: Unit 10, Albert Drive, Burgess Hill, RH15 9TN
Name: Jocelyn Middleton
Project: Westons Farm, Dorking Road, Warnham
Customer ref: LS8779
Quote ref: -
Sampling date: 14/11/2025
Samples received: 19/11/2025
Instructions received: 02/12/2025
Report issued: 11/12/2025
Report issue number: 2

Issue 2 - Amendment Note

BTEX results for sample 2328 corrected to less than LOD
This report supercedes Issue 1



Graham Knight – Laboratory Operations Manger

Sample Summary

Analytical Report: 25-000310 issue 2

SML No.	Client's Ref	Depth (m)	Date Sampled	Date Scheduled	Description	Deviations
2322	HP01	0.1	14/11/2025	02/12/25	Silt Loam	-
2324	HP05	0.1	14/11/2025	02/12/25	Silt Loam	-
2326	HP09	0.1	14/11/2025	02/12/25	Sandy Clay Loam	-
2327	HP10	0.3	14/11/2025	02/12/25	Silty Clay Loam	-
2328	HP11	0.5	14/11/2025	02/12/25	Silty Clay	-

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SML Ref	2322	2324	2326	2327	2328
Customer Ref	LS8779	LS8779	LS8779	LS8779	LS8779
Sample ID	HP01	HP05	HP09	HP10	HP11
Sample Type	Soil	Soil	Soil	Soil	Soil
Sample Location	HP01	HP05	HP09	HP10	HP11
Sample Depth (m)	0.1	0.1	0.1	0.3	0.5
Sampling Date	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025

Determinant	Codes	Units	LOD
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Soil preparation parameters

Moisture Content	N	%	0.1	21.4	12.6	11.1	26.8	21.9
Material removed	N	%	0.1	44.1	81.4	76.5	<0.1	<0.1
Description of inert material removed	N	N/A	N/A	Stones, Roots	Stones, Clinker	Stones, Clinker	None	None

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SML Ref	2322	2324	2326	2327	2328
Customer Ref	LS8779	LS8779	LS8779	LS8779	LS8779
Sample ID	HP01	HP05	HP09	HP10	HP11
Sample Type	Soil	Soil	Soil	Soil	Soil
Sample Location	HP01	HP05	HP09	HP10	HP11
Sample Depth (m)	0.1	0.1	0.1	0.3	0.5
Sampling Date	14/11/2025	14/11/2025	14/11/2025	14/11/2025	14/11/2025

Determinant	Codes	Units	LOD
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TPH CWG

TPH CWG - Aliphatic (>C5 - C7)	N	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TPH CWG - Aliphatic (C7 - C8)	N	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TPH CWG - Aliphatic (C8 - C10)	N	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TPH CWG - Aliphatic (C10 - C12)	N	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0
TPH CWG - Aliphatic (C12 - C16)	N	mg/kg	2	<2.0	<2.0	<2.0	9.11	26.2
TPH CWG - Aliphatic (C16 - C21)	N	mg/kg	10	<10.0	<10.0	<10.0	174	175
TPH CWG - Aliphatic (C21 - C35)	N	mg/kg	10	<10.0	10.3	168	670	655
TPH CWG - Aliphatic (C35 - C40)	N	mg/kg	10	<10.0	<10.0	179	87.6	48.4
TPH CWG - Aromatic (>C5 - C7)	N	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TPH CWG - Aromatic (C7 - C8)	N	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TPH CWG - Aromatic (C8 - C10)	N	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TPH CWG - Aromatic (C10 - C12)	N	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0
TPH CWG - Aromatic (C12 - C16)	N	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0
TPH CWG - Aromatic (C16 - C21)	N	mg/kg	10	<10.0	11.2	<10.0	<10.0	<10.0
TPH CWG - Aromatic (C21 - C35)	N	mg/kg	10	<10.0	60.8	236	66.6	49.8
TPH CWG - Aromatic (C35 - C40)	N	mg/kg	10	<10.0	<10.0	258	99.2	44.6
TPH CWG Total - Aliphatic (>C5-C40)	N	mg/kg	10	<10.0	10.3	347	941	905
TPH CWG Total - Aromatic (>C5-C40)	N	mg/kg	10	<10.0	72.0	494	166	94.4

VOC

Benzene	N	ug/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene	N	ug/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ethylbenzene	N	ug/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
m&p Xylene	N	ug/kg	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
o-Xylene	N	ug/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MTBE	N	ug/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total BTEX	N	ug/kg	0.07	<0.07	<0.07	<0.07	<0.07	<0.07

Analytical Report: 25-000310 issue 2

Method Summary

Soil					
Parameter	Codes	Undertaken On	Date Tested	Method Number	Technique
TPH CWG	N	As submitted sample	03/12/2025	128	GC-FID/HS-MS
Total BTEX	N	As submitted sample	03/12/2025	134	HS-MS

Analytical Report: 25-000310 issue 2

Key

Symbol	Description
U	Hold UKAS accreditation
M	Hold MCERTS accreditation
N	Not accredited
NS	Sample matrix not UKAS accredited
NM	Sample matrix not MCERTS accredited
SU	Subcontracted to a UKAS accredited laboratory
SM	Subcontracted to an MCERTS accredited laboratory
IS	Insufficient sample
US	Unsuitable sample
NT	Not tested
NAD	No asbestos detected
<	Less than
>	Greater than

Soil samples are expressed on an air dried <30°C basis and are **not** corrected for inert material removed.

LOD refers to limit of detection, except in the case of pH where it refers to limit of discrimination.



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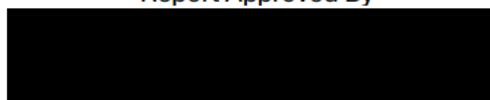
Analytical Report: 25-000305

Customer: Land Science
Address: Unit 10, Albert Drive, Burgess Hill, RH15 9TN
Name: Jocelyn Middleton
Project: Westons Farm, Dorking Road, Warnham
Customer ref: LS8779
Quote ref: -
Sampling date: 25/11/2025
Samples received: 01/12/2025
Instructions received: 01/12/2025
Report issued: 17/12/2025
Report issue number: 3

Issue 2 - Amendment Note
Sum of TPH bands C11-C20 & C21-C40 added

Issue 3 - Amendment Note
Pesticides & Acid Herbicides added
Issue 3 Supersedes all previous reports

Report Approved By



Graham Knight – Laboratory Operations Manager

Sample Summary

Analytical Report: 25-000305 issue 3

SML No.	Client's Ref	Depth (m)	Date Sampled	Date Scheduled	Description	Deviations
2393	HP03	0.50	25/11/25	01/12/25	Clay Loam	-
2394	HP04	0.30	25/11/25	01/12/25	Clay Loam	-
2395	HP12	0.10	25/11/25	01/12/25	Loamy Sand	-

Analytical Report: 25-000305 issue 3

SML Ref	2393	2394	2395
Customer Ref	-	-	-
Sample ID	-	-	-
Sample Type	Soil	Soil	Soil
Sample Location	HP03	HP04	HP12
Sample Depth (m)	0.50	0.30	0.10
Sampling Date	25/11/25	25/11/25	25/11/25

Determinant	Codes	Units	LOD
-------------	-------	-------	-----

Soil preparation parameters

Moisture Content	N	%	0.1	15.8	16.3	11.6
Material removed	N	%	0.1	57.2	57.8	70.9
Description of inert material removed	N	N/A	N/A	Stones, Clinker	Stones	Stones, Clinker

Metals

Beryllium	N	mg/kg	0.5	1.66	1.64	0.80
Vanadium	N	mg/kg	1	42.8	35.8	41.8
Chromium	N	mg/kg	1	19.7	15.3	27.4
Nickel	N	mg/kg	1	29.7	25.9	23.5
Copper	N	mg/kg	1	46.3	52.8	98.2
Zinc	N	mg/kg	1	121	81.2	278
Arsenic	N	mg/kg	1	20.4	20.2	16.3
Selenium	N	mg/kg	1	<1.0	<1.0	<1.0
Cadmium	N	mg/kg	0.5	<0.50	<0.50	0.54
Barium	N	mg/kg	1	183	242	202
Mercury	N	mg/kg	0.5	<0.50	<0.50	<0.50
Lead	N	mg/kg	1	259	133	128

Inorganics

Total Cyanide	N	mg/kg	1	<1.0	<1.0	<1.0
Hexavalent Chromium	N	mg/kg	5	<5.0	<5.0	<5.0
Fraction Organic Carbon	N	%	0.005	0.022	0.019	0.017
Sulphide	N	mg/kg	2	<2.0	<2.0	<2.0
Water Soluble Boron	N	mg/kg	0.02	3.66	0.90	0.87

Miscellaneous

pH	N	pH Units	0.01	7.75	8.96	9.18
Water Soluble Sulphate (2:1)	N	mg/kg	40	147	205	178
Water Soluble Sulphate (2:1)	N	g/l	0.02	0.07	0.10	0.09
Water Soluble Sulphate (2:1)	N	mg/l	20	73.5	102.5	89.0

Analytical Report: 25-000305 issue 3

SML Ref	2393	2394	2395
Customer Ref	-	-	-
Sample ID	-	-	-
Sample Type	Soil	Soil	Soil
Sample Location	HP03	HP04	HP12
Sample Depth (m)	0.50	0.30	0.10
Sampling Date	25/11/25	25/11/25	25/11/25

Determinant	Codes	Units	LOD
-------------	-------	-------	-----

Phenols

Phenol	N	mg/kg	1	<1.0	<1.0	<1.0
M,P-Cresol	N	mg/kg	1	<1.0	<1.0	<1.0
O-Cresol	N	mg/kg	1	<1.0	<1.0	<1.0
3,4-Dimethylphenol	N	mg/kg	1	<1.0	<1.0	<1.0
2,3-Dimethylphenol	N	mg/kg	1	<1.0	<1.0	<1.0
Napthol	N	mg/kg	1	<1.0	<1.0	<1.0
2,3,5-Trimethylphenol	N	mg/kg	1	<1.0	<1.0	<1.0
Total Monohydric Phenols	N	mg/kg	7	<7.0	<7.0	<7.0

Polyaromatic Hydrocarbons

Napthalene	N	mg/kg	0.02	<0.02	<0.02	<0.02
Acenaphthylene	N	mg/kg	0.02	0.25	0.21	0.19
Acenaphthene	N	mg/kg	0.02	<0.02	<0.02	<0.02
Fluorene	N	mg/kg	0.02	0.06	0.19	0.07
Phenanthrene	N	mg/kg	0.02	0.70	2.06	0.98
Anthracene	N	mg/kg	0.02	0.49	1.01	0.59
Fluoranthene	N	mg/kg	0.02	2.49	6.74	3.30
Pyrene	N	mg/kg	0.02	2.71	5.84	3.14
Benzo(a)anthracene	N	mg/kg	0.02	1.80	5.09	3.76
Chrysene	N	mg/kg	0.02	2.23	5.81	3.64
Benzo(b)fluoranthene	N	mg/kg	0.02	2.46	10.9	7.37
Benzo(k)fluoranthene	N	mg/kg	0.02	1.42	5.16	3.47
Benzo(a)pyrene	N	mg/kg	0.02	2.95	12.7	9.66
Indeno(1,2,3-cd)pyrene	N	mg/kg	0.02	1.06	11.8	8.58
Dibenzo(a,h)anthracene	N	mg/kg	0.02	<0.02	3.29	2.08
Benzo[g,h,i]perylene	N	mg/kg	0.02	1.58	10.6	6.69
Coronene	N	mg/kg	0.02	0.44	2.90	1.84
Total PAH(17)	N	mg/kg	0.34	20.6	84.3	55.4

TPH

TPH C11-C20	N	mg/kg	1	10.8	38.8	30.9
TPH C21-C40	N	mg/kg	1	41.6	736	757
Total TPH (C10 – C40)	N	mg/kg	1	52.4	775	788

Analytical Report: 25-000305 issue 3

SML Ref	2395
Customer Ref	-
Sample ID	-
Sample Type	Soil
Sample Location	HP12
Sample Depth (m)	0.10
Sampling Date	25/11/25

Determinant	Codes	Units
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OCP & OPP

4,4'-DDD (p,p'-DDD)	N	(mg/kg)	< 0.1
4,4'-DDE (p,p'-DDE)	N	(mg/kg)	< 0.1
4,4'-DDT (p,p'-DDT)	N	(mg/kg)	< 0.2
Aldrin	N	(mg/kg)	< 0.2
alpha-BHC	N	(mg/kg)	< 0.1
beta-BHC	N	(mg/kg)	< 0.1
cis-Chlordane	N	(mg/kg)	< 0.1
delta-BHC	N	(mg/kg)	< 0.1
Dieldrin	N	(mg/kg)	< 0.2
Endosulfan I	N	(mg/kg)	< 0.2
Endosulfan II	N	(mg/kg)	< 0.2
Endosulfan Sulfate	N	(mg/kg)	< 0.2
Endrin	N	(mg/kg)	< 0.2
gamma-BHC (Lindane)	N	(mg/kg)	< 0.1
Heptachlor	N	(mg/kg)	< 0.1
Heptachlor Epoxide	N	(mg/kg)	< 0.2
Methoxychlor	N	(mg/kg)	< 0.2
trans-Chlordane	N	(mg/kg)	< 0.1
Azinphos Methyl (Guthion)	N	(mg/kg)	< 0.2
Chlorpyrifos (Dursban)	N	(mg/kg)	< 0.1
Coumaphos	N	(mg/kg)	< 0.15
Demeton O & S	N	(mg/kg)	< 0.2
Diazinon	N	(mg/kg)	< 0.1
Dichlorvos (DDVP) (Dichlorophos)	N	(mg/kg)	< 0.1
Dimethoate	N	(mg/kg)	< 0.2
Disulfoton	N	(mg/kg)	< 0.2
Endrin Aldehyde	N	(mg/kg)	< 0.2
Endrin Ketone	N	(mg/kg)	< 0.15
EPN	N	(mg/kg)	< 0.1
Ethoprophos	N	(mg/kg)	< 0.1
Fenchlorphos (Ronnel)	N	(mg/kg)	< 0.1
Fensulfothion	N	(mg/kg)	< 0.2
Fenthion	N	(mg/kg)	< 0.1
Malathion (Carbophos)	N	(mg/kg)	< 0.2
Methyl parathion	N	(mg/kg)	< 0.2
Mevinphos	N	(mg/kg)	< 0.1
Monocrotophos	N	(mg/kg)	< 0.4
Naled	N	(mg/kg)	< 0.4
Parathion (Ethyl Parathion)	N	(mg/kg)	< 0.2
Phorate	N	(mg/kg)	< 0.1
Prothiofos (Tokuthion)	N	(mg/kg)	< 0.1
Sulfotep (Dithion)	N	(mg/kg)	< 0.1
Sulprofos (Bolstar)	N	(mg/kg)	< 0.2
TEPP (Tetraethylpyrophosphate)	N	(mg/kg)	< 0.8
Tetrachlorovinphos (Stirifos)	N	(mg/kg)	< 0.15
Trichloronate	N	(mg/kg)	< 0.1
Permethrin	N	(mg/kg)	< 0.1

Analytical Report: 25-000305 issue 3

SML Ref	2395
Customer Ref	-
Sample ID	-
Sample Type	Soil
Sample Location	HP12
Sample Depth (m)	0.10
Sampling Date	25/11/25

Determinant	Codes	Units
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Herbicides

Ametryn	N	(mg/kg)	< 0.001
Atrazine	N	(mg/kg)	< 0.001
Prometryn	N	(mg/kg)	< 0.001
Propazine	N	(mg/kg)	< 0.001
Simazine	N	(mg/kg)	< 0.001
Terbuthylazine	N	(mg/kg)	< 0.001
Terbutryn	N	(mg/kg)	< 0.001
Atraton	N	(mg/kg)	< 0.001
Simetryn	N	(mg/kg)	< 0.001
Prometon	N	(mg/kg)	< 0.001
2,4,5-T	N	(mg/kg)	< 0.01
2,4-D	N	(mg/kg)	< 0.01
Dichlorprop	N	(mg/kg)	< 0.01
Fenoprop	N	(mg/kg)	< 0.01
Mecoprop	N	(mg/kg)	< 0.01
4-CPA	N	(mg/kg)	< 0.01
2,4-DB	N	(mg/kg)	< 0.01
MCPA	N	(mg/kg)	< 0.01
MCPB	N	(mg/kg)	< 0.01
Triclopyr	N	(mg/kg)	< 0.01
Carbetamide	N	(mg/kg)	< 0.001
Chlorbufam	N	(mg/kg)	< 0.001
Ethiofencarb	N	(mg/kg)	< 0.001
Phenmediphan	N	(mg/kg)	< 0.001
Pirimicarb	N	(mg/kg)	< 0.001
Carbendazim	N	(mg/kg)	< 0.001
Bromacil	N	(mg/kg)	< 0.001
Cyanazine	N	(mg/kg)	< 0.001
Carbaryl	N	(mg/kg)	< 0.001
Methiocarb	N	(mg/kg)	< 0.001
Chloroxuron	N	(mg/kg)	< 0.001
Chlortoluron	N	(mg/kg)	< 0.001
Diflubenzuron	N	(mg/kg)	< 0.001
Dimefuron	N	(mg/kg)	< 0.001
Diuron	N	(mg/kg)	< 0.001
Isoproturon	N	(mg/kg)	< 0.001
Linuron	N	(mg/kg)	< 0.001
Methabenzthiazuron	N	(mg/kg)	< 0.001
Metoxuron	N	(mg/kg)	< 0.001
Monolinuron	N	(mg/kg)	< 0.001
Monuron	N	(mg/kg)	< 0.001
Pencycuron	N	(mg/kg)	< 0.001

Analytical Report: 25-000305 issue 3

Asbestos Screening

SML Sample Reference	Client Reference	Depth (m)	Sample Matrix Description	Asbestos Identification	Gravimetric Analysis Total %	Gravimetric Analysis by ACM Type %	Free fibre Analysis %	Total Asbestos %
2393	HP03	0.50	Soil	NAD	N/T	N/T	N/T	N/T
2394	HP04	0.30	Soil	NAD	N/T	N/T	N/T	N/T
2395	HP12	0.10	Soil	NAD	N/T	N/T	N/T	N/T

NAD - No Asbestos Detected

N/T - Not tested

Analytical Report: 25-000305 issue 3

Method Summary

Soil					
Parameter	Codes	Undertaken On	Date Tested	Method Number	Technique
pH value	N	Air dried sample	02/12/28	113	Electrometric
Water Soluble Sulphate	N	Air dried sample	09/12/25	130	Ion Chromatography
Total Cyanide	N	As submitted sample	05/12/25	137	Colorimetric
Phenols	N	As submitted sample	05/12/25	111	HPLC
Asbestos ID	SU	Subcontracted	05/12/25	Subcontracted	Microscopy
Hexavalent Chromium	N	As submitted sample	05/12/25	103	Discrete Analyser
Total (of 16) PAH	N	As submitted sample	05/12/25	116	GC-MS
Total TPH C10-C40	N	As submitted sample	06/12/25	108	GC-FID
Sulphide	N	As submitted sample	02/12/28	102	Discrete Analyser
TOC	N	Air dried sample	02/12/28	139	Titration
Water Soluble Boron	N	Air dried sample	08/12/25	136	Discrete Analyser
Total Metals	N	Air dried sample	09/12/25	148	ICP-MS
GC Pesticides	SUU	Subcontracted	03/12/25 - 16/12/25	Subcontracted	GC-MS
LC Herbicides	SUU	Subcontracted	03/12/25 - 16/12/25	Subcontracted	LC-MS

Analytical Report: 25-000305 issue 3

Key

Symbol	Description
U	Hold UKAS accreditation
M	Hold MCERTS accreditation
N	Not accredited
NS	Sample matrix not UKAS accredited
NM	Sample matrix not MCERTS accredited
SUU	Subcontracted to an unaccredited laboratory
SU	Subcontracted to a UKAS accredited laboratory
SM	Subcontracted to an MCERTS accredited laboratory
IS	Insufficient sample
US	Unsuitable sample
NT	Not tested
NAD	No asbestos detected
<	Less than
>	Greater than

Soil samples are expressed on an air dried <30°C basis and are **not** corrected for inert material removed.

LOD refers to limit of detection, except in the case of pH where it refers to limit of discrimination.

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

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



TPSI8-80QNG-Z9MJF

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

Report is invalid if pages are removed.

Job name

LS8779 (JM)

Description/Comments

Project

LS8779

Site

Westons Farm, Dorking Road, Warnham RH12 3QQ

Classified by

Name: **Jos Middleton**
Date: **11 Dec 2025 10:44 GMT**
Telephone: **01444 712 870**
Company: **SML Laboratories**
Unit 10, 19 Albert Drive
Burgess Hill
RH15 9TN.

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

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

-

Purpose of classification

2 - Material Characterisation

Address of the waste

Westons Farm, Dorking Road, Warnham

Post Code RH12 3QQ

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment of farm to residential with gardens

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

Waste from foundation excavations

Description of the waste

Made Ground: (locally gravelly) slightly sandy silty Clay / silty/sandy Gravel / silty gravelly Sand with flint, brick, concrete, ballast, clinker and rock fragments and rare cobbles. Reworked Fill: silty Gravel of chalk, or slightly gravelly slightly sandy Silt/Clay with chalk, siltstone, rare brick and 1no wooden fragment.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	HP01	0.1	Non Hazardous		3
2	HP02	0.4	Non Hazardous		5
3	HP05	0.1	Non Hazardous		7
4	HP06	0.2	Non Hazardous		10
5	HP09	0.1	Non Hazardous		12
6	HP10	0.3	Hazardous	HP 3(i), HP 7, HP 11	15
7	HP11	0.5	Non Hazardous		18
8	HP03	0.50	Non Hazardous		21
9	HP04	0.30	Non Hazardous		23
10	HP12	0.10	Non Hazardous		25

Related documents

#	Name	Description
1	Land Science Template WM3 v1.2GB	waste stream template used to create this Job

Report

Created by: Jos Middleton

Created date: 11 Dec 2025 10:44 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	27
Appendix B: Rationale for selection of metal species	28
Appendix C: Version	29

Classification of sample: HP01

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

Sample details

Sample name:	LoW Code:
HP01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 21.4% 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	pH		PH		7.71 pH		7.71 pH	7.71 pH		
2	phenol				<7 mg/kg		<7 mg/kg	<0.0007 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
4	acenaphthylene				0.32 mg/kg		0.32 mg/kg	0.000032 %		
		205-917-1	208-96-8							
5	acenaphthene				0.05 mg/kg		0.05 mg/kg	0.000005 %		
		201-469-6	83-32-9							
6	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-695-5	86-73-7							
7	phenanthrene				1 mg/kg		1 mg/kg	0.0001 %		
		201-581-5	85-01-8							
8	anthracene				0.37 mg/kg		0.37 mg/kg	0.000037 %		
		204-371-1	120-12-7							
9	fluoranthene				1.54 mg/kg		1.54 mg/kg	0.000154 %		
		205-912-4	206-44-0							
10	pyrene				1.36 mg/kg		1.36 mg/kg	0.000136 %		
		204-927-3	129-00-0							
11	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
12	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
13	benzo[b]fluoranthene				1.31 mg/kg		1.31 mg/kg	0.000131 %		
	601-034-00-4	205-911-9	205-99-2							
14	benzo[k]fluoranthene				0.95 mg/kg		0.95 mg/kg	0.000095 %		
	601-036-00-5	205-916-6	207-08-9							
15	benzo[a]pyrene; benzo[def]chrysene				1.04 mg/kg		1.04 mg/kg	0.000104 %		
	601-032-00-3	200-028-5	50-32-8							
16	indeno[123-cd]pyrene				1.46 mg/kg		1.46 mg/kg	0.000146 %		
		205-893-2	193-39-5							
17	dibenz[a,h]anthracene				0.35 mg/kg		0.35 mg/kg	0.000035 %		
	601-041-00-2	200-181-8	53-70-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	benzo[ghi]perylene	205-883-8	191-24-2		1.01 mg/kg		1.01 mg/kg	0.000101 %		
19	coronene	205-881-7	191-07-1		0.7 mg/kg		0.7 mg/kg	0.00007 %		
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		12.6 mg/kg	1.32	16.636 mg/kg	0.00166 %		
21	barium { barium oxide }	215-127-9	1304-28-5		73.6 mg/kg	1.117	82.175 mg/kg	0.00822 %		
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1		0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %		
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8		1.28 mg/kg	3.22	4.121 mg/kg	0.000412 %		
24	cadmium { cadmium oxide }	048-002-00-0	215-146-2		<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8		<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %		<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7		29.9 mg/kg	1.126	33.664 mg/kg	0.00337 %		
27	lead { lead chromate }	082-004-00-2	231-846-0	1	84.9 mg/kg	1.56	132.428 mg/kg	0.00849 %		
28	mercury { mercury dichloride }	080-010-00-X	231-299-8		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
29	nickel { nickel chromate }	028-035-00-7	238-766-5		17.7 mg/kg	2.976	52.68 mg/kg	0.00527 %		
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8		23.8 mg/kg	1.785	42.487 mg/kg	0.00425 %		
32	zinc { zinc chromate }	024-007-00-3	236-878-9		106 mg/kg	2.774	294.06 mg/kg	0.0294 %		
33	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	toluene	601-021-00-3	203-625-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	ethylbenzene	601-023-00-4	202-849-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
37	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
Total:								0.0624 %		

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

Classification of sample: HP02

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

Sample details

Sample name:	LoW Code:
HP02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.4 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
22.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 22.2% 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	pH				8.09	pH		8.09	pH	8.09 pH		
2	phenol				<7	mg/kg		<7	mg/kg	<0.0007 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
3	naphthalene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
4	acenaphthylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		205-917-1	208-96-8									
5	acenaphthene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		201-469-6	83-32-9									
6	fluorene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		201-695-5	86-73-7									
7	phenanthrene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
		201-581-5	85-01-8									
8	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
9	fluoranthene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		205-912-4	206-44-0									
10	pyrene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
		204-927-3	129-00-0									
11	benzo[a]anthracene				0.65	mg/kg		0.65	mg/kg	0.000065 %		
	601-033-00-9	200-280-6	56-55-3									
12	chrysene				0.52	mg/kg		0.52	mg/kg	0.000052 %		
	601-048-00-0	205-923-4	218-01-9									
13	benzo[b]fluoranthene				0.68	mg/kg		0.68	mg/kg	0.000068 %		
	601-034-00-4	205-911-9	205-99-2									
14	benzo[k]fluoranthene				0.57	mg/kg		0.57	mg/kg	0.000057 %		
	601-036-00-5	205-916-6	207-08-9									
15	benzo[a]pyrene; benzo[def]chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
16	indeno[123-cd]pyrene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		205-893-2	193-39-5									
17	dibenz[a,h]anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-041-00-2	200-181-8	53-70-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
18	benzo[ghi]perylene	205-883-8	191-24-2		0.41 mg/kg		0.41 mg/kg	0.000041 %			
19	coronene	205-881-7	191-07-1		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	20.2 mg/kg	1.32	26.671 mg/kg	0.00267 %			
21	barium { barium oxide }	215-127-9	1304-28-5		159 mg/kg	1.117	177.524 mg/kg	0.0178 %			
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1.2 mg/kg	2.775	3.33 mg/kg	0.000333 %			
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	1.26 mg/kg	3.22	4.057 mg/kg	0.000406 %			
24	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %			<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	28.6 mg/kg	1.126	32.2 mg/kg	0.00322 %			
27	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	56.1 mg/kg	1.56	87.506 mg/kg	0.00561 %			
28	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
29	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	33 mg/kg	2.976	98.217 mg/kg	0.00982 %			
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	33.3 mg/kg	1.785	59.447 mg/kg	0.00594 %			
32	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	86.8 mg/kg	2.774	240.796 mg/kg	0.0241 %			
33	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
34	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
35	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
36	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
37	TPH (C6 to C40) petroleum group		TPH		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
38	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3	<0.028 mg/kg		<0.028 mg/kg	<0.0000028 %			<LOD
Total:									0.0702 %		

Key

	User 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
	Newer version of determinand available
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: HP05

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

Sample details

Sample name:	LoW Code:
HP05	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.6% 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	• pH		PH		8.15 pH		8.15 pH	8.15 pH		
2	• phenol				<7 mg/kg		<7 mg/kg	<0.0007 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	• naphthalene				0.57 mg/kg		0.57 mg/kg	0.000057 %		
	601-052-00-2	202-049-5	91-20-3							
4	• acenaphthylene				2.35 mg/kg		2.35 mg/kg	0.000235 %		
		205-917-1	208-96-8							
5	• acenaphthene				0.66 mg/kg		0.66 mg/kg	0.000066 %		
		201-469-6	83-32-9							
6	• fluorene				0.88 mg/kg		0.88 mg/kg	0.000088 %		
		201-695-5	86-73-7							
7	• phenanthrene				12.1 mg/kg		12.1 mg/kg	0.00121 %		
		201-581-5	85-01-8							
8	• anthracene				4.85 mg/kg		4.85 mg/kg	0.000485 %		
		204-371-1	120-12-7							
9	• fluoranthene				32.6 mg/kg		32.6 mg/kg	0.00326 %		
		205-912-4	206-44-0							
10	• pyrene				29 mg/kg		29 mg/kg	0.0029 %		
		204-927-3	129-00-0							
11	• benzo[a]anthracene				21.8 mg/kg		21.8 mg/kg	0.00218 %		
	601-033-00-9	200-280-6	56-55-3							
12	• chrysene				20.4 mg/kg		20.4 mg/kg	0.00204 %		
	601-048-00-0	205-923-4	218-01-9							
13	• benzo[b]fluoranthene				29.4 mg/kg		29.4 mg/kg	0.00294 %		
	601-034-00-4	205-911-9	205-99-2							
14	• benzo[k]fluoranthene				15.2 mg/kg		15.2 mg/kg	0.00152 %		
	601-036-00-5	205-916-6	207-08-9							
15	• benzo[a]pyrene; benzo[def]chrysene				29.2 mg/kg		29.2 mg/kg	0.00292 %		
	601-032-00-3	200-028-5	50-32-8							
16	• indeno[123-cd]pyrene				23.1 mg/kg		23.1 mg/kg	0.00231 %		
		205-893-2	193-39-5							
17	• dibenz[a,h]anthracene				7.23 mg/kg		7.23 mg/kg	0.000723 %		
	601-041-00-2	200-181-8	53-70-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	benzo[ghi]perylene	205-883-8	191-24-2		20.3 mg/kg		20.3 mg/kg	0.00203 %		
19	coronene	205-881-7	191-07-1		6.1 mg/kg		6.1 mg/kg	0.00061 %		
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	12.4 mg/kg	1.32	16.372 mg/kg	0.00164 %		
21	barium { barium oxide }	215-127-9	1304-28-5		134 mg/kg	1.117	149.612 mg/kg	0.015 %		
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.8 mg/kg	2.775	2.22 mg/kg	0.000222 %		
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	1.51 mg/kg	3.22	4.862 mg/kg	0.000486 %		
24	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 %		
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %		<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	56 mg/kg	1.126	63.05 mg/kg	0.0063 %		
27	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	99.8 mg/kg	1.56	155.67 mg/kg	0.00998 %		
28	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	1.31 mg/kg	1.353	1.773 mg/kg	0.000177 %		
29	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	20.4 mg/kg	2.976	60.716 mg/kg	0.00607 %		
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	27.5 mg/kg	1.785	49.093 mg/kg	0.00491 %		
32	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	193 mg/kg	2.774	535.41 mg/kg	0.0535 %		
33	benzene	601-020-00-8	200-753-7	71-43-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	toluene	601-021-00-3	203-625-9	108-88-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
37	TPH (C6 to C40) petroleum group		TPH		82 mg/kg		82 mg/kg	0.0082 %		
Total:								0.132 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	Newer version of determinand available
<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 concentration of: 1000 mg/kg (0.1%)
because: No PID VOCs over detection and no diesel or oil detected

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0082%)

Classification of sample: HP06

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

Sample details

Sample name:	LoW Code:
HP06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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	pH		PH		10.79 pH		10.79 pH	10.79 pH		
2	phenol				<7 mg/kg		<7 mg/kg	<0.0007 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
4	acenaphthylene				0.24 mg/kg		0.24 mg/kg	0.000024 %		
		205-917-1	208-96-8							
5	acenaphthene				0.04 mg/kg		0.04 mg/kg	0.000004 %		
		201-469-6	83-32-9							
6	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-695-5	86-73-7							
7	phenanthrene				0.42 mg/kg		0.42 mg/kg	0.000042 %		
		201-581-5	85-01-8							
8	anthracene				0.35 mg/kg		0.35 mg/kg	0.000035 %		
		204-371-1	120-12-7							
9	fluoranthene				0.79 mg/kg		0.79 mg/kg	0.000079 %		
		205-912-4	206-44-0							
10	pyrene				0.76 mg/kg		0.76 mg/kg	0.000076 %		
		204-927-3	129-00-0							
11	benzo[a]anthracene				0.87 mg/kg		0.87 mg/kg	0.000087 %		
	601-033-00-9	200-280-6	56-55-3							
12	chrysene				0.82 mg/kg		0.82 mg/kg	0.000082 %		
	601-048-00-0	205-923-4	218-01-9							
13	benzo[b]fluoranthene				1.03 mg/kg		1.03 mg/kg	0.000103 %		
	601-034-00-4	205-911-9	205-99-2							
14	benzo[k]fluoranthene				0.75 mg/kg		0.75 mg/kg	0.000075 %		
	601-036-00-5	205-916-6	207-08-9							
15	benzo[a]pyrene; benzo[def]chrysene				0.81 mg/kg		0.81 mg/kg	0.000081 %		
	601-032-00-3	200-028-5	50-32-8							
16	indeno[123-cd]pyrene				0.94 mg/kg		0.94 mg/kg	0.000094 %		
		205-893-2	193-39-5							
17	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-041-00-2	200-181-8	53-70-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
18	benzo[ghi]perylene	205-883-8	191-24-2		0.69 mg/kg		0.69 mg/kg	0.000069 %			
19	coronene	205-881-7	191-07-1		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	25.8 mg/kg	1.32	34.064 mg/kg	0.00341 %			
21	barium { barium oxide }	215-127-9	1304-28-5		194 mg/kg	1.117	216.602 mg/kg	0.0217 %			
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	1.8 mg/kg	2.775	4.996 mg/kg	0.0005 %			
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	1.06 mg/kg	3.22	3.413 mg/kg	0.000341 %			
24	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %			<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	72.7 mg/kg	1.126	81.852 mg/kg	0.00819 %			
27	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	50.5 mg/kg	1.56	78.771 mg/kg	0.00505 %			
28	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
29	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	39.9 mg/kg	2.976	118.753 mg/kg	0.0119 %			
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	68.3 mg/kg	1.785	121.928 mg/kg	0.0122 %			
32	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	145 mg/kg	2.774	402.251 mg/kg	0.0402 %			
33	TPH (C6 to C40) petroleum group		TPH		8.7 mg/kg		8.7 mg/kg	0.00087 %			
Total:									0.105 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	Newer version of determinand available
<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 concentration of: 1000 mg/kg (0.1%) because: No PID VOCs over detection and no diesel or oil detected

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00087%)

Classification of sample: HP09

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

Sample details

Sample name:	LoW Code:
HP09	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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	• pH		PH		8.85 pH		8.85 pH	8.85 pH		
2	phenol				<7 mg/kg		<7 mg/kg	<0.0007 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
4	• acenaphthylene				0.3 mg/kg		0.3 mg/kg	0.00003 %		
		205-917-1	208-96-8							
5	• acenaphthene				0.47 mg/kg		0.47 mg/kg	0.000047 %		
		201-469-6	83-32-9							
6	• fluorene				0.58 mg/kg		0.58 mg/kg	0.000058 %		
		201-695-5	86-73-7							
7	• phenanthrene				4.4 mg/kg		4.4 mg/kg	0.00044 %		
		201-581-5	85-01-8							
8	• anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
9	• fluoranthene				7.3 mg/kg		7.3 mg/kg	0.00073 %		
		205-912-4	206-44-0							
10	• pyrene				5.79 mg/kg		5.79 mg/kg	0.000579 %		
		204-927-3	129-00-0							
11	benzo[a]anthracene				3.57 mg/kg		3.57 mg/kg	0.000357 %		
	601-033-00-9	200-280-6	56-55-3							
12	chrysene				4.09 mg/kg		4.09 mg/kg	0.000409 %		
	601-048-00-0	205-923-4	218-01-9							
13	benzo[b]fluoranthene				7.41 mg/kg		7.41 mg/kg	0.000741 %		
	601-034-00-4	205-911-9	205-99-2							
14	benzo[k]fluoranthene				3.44 mg/kg		3.44 mg/kg	0.000344 %		
	601-036-00-5	205-916-6	207-08-9							
15	benzo[a]pyrene; benzo[def]chrysene				6.8 mg/kg		6.8 mg/kg	0.00068 %		
	601-032-00-3	200-028-5	50-32-8							
16	• indeno[123-cd]pyrene				7.13 mg/kg		7.13 mg/kg	0.000713 %		
		205-893-2	193-39-5							
17	dibenz[a,h]anthracene				1.89 mg/kg		1.89 mg/kg	0.000189 %		
	601-041-00-2	200-181-8	53-70-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	benzo[ghi]perylene	205-883-8	191-24-2		7.74 mg/kg		7.74 mg/kg	0.000774 %		
19	coronene	205-881-7	191-07-1		2.16 mg/kg		2.16 mg/kg	0.000216 %		
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		10.4 mg/kg	1.32	13.731 mg/kg	0.00137 %		
21	barium { barium oxide }	215-127-9	1304-28-5		133 mg/kg	1.117	148.495 mg/kg	0.0148 %		
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1		0.8 mg/kg	2.775	2.22 mg/kg	0.000222 %		
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8		1.37 mg/kg	3.22	4.411 mg/kg	0.000441 %		
24	cadmium { cadmium oxide }	048-002-00-0	215-146-2		<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8		<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %		<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7		26.4 mg/kg	1.126	29.723 mg/kg	0.00297 %		
27	lead { lead chromate }	082-004-00-2	231-846-0	1	41.1 mg/kg	1.56	64.108 mg/kg	0.00411 %		
28	mercury { mercury dichloride }	080-010-00-X	231-299-8		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
29	nickel { nickel chromate }	028-035-00-7	238-766-5		16.6 mg/kg	2.976	49.406 mg/kg	0.00494 %		
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8		41.4 mg/kg	1.785	73.907 mg/kg	0.00739 %		
32	zinc { zinc chromate }	024-007-00-3	236-878-9		97.5 mg/kg	2.774	270.479 mg/kg	0.027 %		
33	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
34	toluene	601-021-00-3	203-625-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	ethylbenzene	601-023-00-4	202-849-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
37	TPH (C6 to C40) petroleum group		TPH		841 mg/kg		841 mg/kg	0.0841 %		
Total:								0.154 %		

Key

	User 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
	Newer version of determinand available
<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 concentration of: 1000 mg/kg (0.1%)
because: No PID VOCs over detection and no diesel or oil detected

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0841%)

Classification of sample: HP10

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

Sample details

Sample name:	LoW Code:	
HP10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.3 m		
Moisture content:		
26.8%		
(no correction)		

Hazard properties

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.111%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

zinc chromate (compound conc.: 0.137%)

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.111%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.111%)

Determinands

Moisture content: 26.8% 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	pH				7.48 pH		7.48 pH	7.48 pH		
			PH							
2	phenol				<7 mg/kg		<7 mg/kg	<0.0007 %		<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								
3	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
4	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-917-1	208-96-8								
5	acenaphthene				0.03 mg/kg		0.03 mg/kg	0.000003 %			
		201-469-6	83-32-9								
6	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		201-695-5	86-73-7								
7	phenanthrene				0.31 mg/kg		0.31 mg/kg	0.000031 %			
		201-581-5	85-01-8								
8	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
9	fluoranthene				0.47 mg/kg		0.47 mg/kg	0.000047 %			
		205-912-4	206-44-0								
10	pyrene				0.51 mg/kg		0.51 mg/kg	0.000051 %			
		204-927-3	129-00-0								
11	benzo[a]anthracene				0.74 mg/kg		0.74 mg/kg	0.000074 %			
	601-033-00-9	200-280-6	56-55-3								
12	chrysene				0.63 mg/kg		0.63 mg/kg	0.000063 %			
	601-048-00-0	205-923-4	218-01-9								
13	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
14	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
15	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
16	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-893-2	193-39-5								
17	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
18	benzo[ghi]perylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-883-8	191-24-2								
19	coronene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		205-881-7	191-07-1								
20	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								
21	barium { barium oxide }				78.3 mg/kg	1.117	87.422 mg/kg	0.00874 %			
		215-127-9	1304-28-5								
22	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %			<LOD
	004-003-00-8	215-133-1	1304-56-9								
23	boron { diboron trioxide; boric oxide }				0.73 mg/kg	3.22	2.351 mg/kg	0.000235 %			
	005-008-00-8	215-125-8	1303-86-2								
24	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								
25	chromium in Cr(VI) compounds { chromium(VI) oxide }				<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
26	copper { dicopper oxide; copper (I) oxide }				104 mg/kg	1.126	117.092 mg/kg	0.0117 %			
	029-002-00-X	215-270-7	1317-39-1								
27	lead { lead chromate }			1	34.8 mg/kg	1.56	54.282 mg/kg	0.00348 %			
	082-004-00-2	231-846-0	7758-97-6								
28	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								
29	nickel { nickel chromate }				15.7 mg/kg	2.976	46.727 mg/kg	0.00467 %			
	028-035-00-7	238-766-5	14721-18-7								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
31	vanadium { divanadium pentaoxide; vanadium pentoxide }				22.9 mg/kg	1.785	40.881 mg/kg	0.00409 %		
	023-001-00-8	215-239-8	1314-62-1							
32	zinc { zinc chromate }				493 mg/kg	2.774	1367.654 mg/kg	0.137 %		
	024-007-00-3	236-878-9	13530-65-9							
33	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
34	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
35	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
36	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
37	TPH (C6 to C40) petroleum group				1107 mg/kg		1107 mg/kg	0.111 %		
			TPH							
38	polychlorobiphenyls; PCB				<0.028 mg/kg		<0.028 mg/kg	<0.0000028 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.282 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	Newer version of determinand available
<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 concentration of: 1000 mg/kg (0.1%) because: No PID VOCs over detection and no diesel or oil detected

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.111%)

Classification of sample: HP11

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

Sample details

Sample name:	LoW Code:
HP11	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 21.9% 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	pH		PH		8.16 pH		8.16 pH	8.16 pH		
2	phenol				<7 mg/kg		<7 mg/kg	<0.0007 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
4	acenaphthylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-917-1	208-96-8							
5	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-469-6	83-32-9							
6	fluorene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-695-5	86-73-7							
7	phenanthrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-581-5	85-01-8							
8	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
9	fluoranthene				0.32 mg/kg		0.32 mg/kg	0.000032 %		
		205-912-4	206-44-0							
10	pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-927-3	129-00-0							
11	benzo[a]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
12	chrysene				0.5 mg/kg		0.5 mg/kg	0.00005 %		
	601-048-00-0	205-923-4	218-01-9							
13	benzo[b]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
14	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
15	benzo[a]pyrene; benzo[def]chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
16	indeno[123-cd]pyrene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		205-893-2	193-39-5							
17	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-041-00-2	200-181-8	53-70-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
18	benzo[ghi]perylene	205-883-8	191-24-2		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
19	coronene	205-881-7	191-07-1		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		7.6 mg/kg	1.32	10.034 mg/kg	0.001 %			
21	barium { barium oxide }	215-127-9	1304-28-5		57.9 mg/kg	1.117	64.646 mg/kg	0.00646 %			
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1		0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %			
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8		1.22 mg/kg	3.22	3.928 mg/kg	0.000393 %			
24	cadmium { cadmium oxide }	048-002-00-0	215-146-2		<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8		<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %			<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7		26.6 mg/kg	1.126	29.949 mg/kg	0.00299 %			
27	lead { lead chromate }	082-004-00-2	231-846-0	1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %			
28	mercury { mercury dichloride }	080-010-00-X	231-299-8		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
29	nickel { nickel chromate }	028-035-00-7	238-766-5		17 mg/kg	2.976	50.597 mg/kg	0.00506 %			
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8		36.9 mg/kg	1.785	65.873 mg/kg	0.00659 %			
32	zinc { zinc chromate }	024-007-00-3	236-878-9		65.5 mg/kg	2.774	181.707 mg/kg	0.0182 %			
33	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
34	toluene	601-021-00-3	203-625-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
35	ethylbenzene	601-023-00-4	202-849-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
36	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
37	TPH (C6 to C40) petroleum group		TPH		999.4 mg/kg		999.4 mg/kg	0.0999 %			
Total:									0.142 %		

Key

	User 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
	Newer version of determinand available
<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 concentration of: 1000 mg/kg (0.1%)
because: No PID VOCs over detection and no diesel or oil detected

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0999%)

Classification of sample: HP03

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

Sample details

Sample name:	LoW Code:
HP03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.8%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.8% 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	pH		PH		7.75 pH		7.75 pH	7.75 pH		
2	phenol				<7 mg/kg		<7 mg/kg	<0.0007 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
4	acenaphthylene				0.25 mg/kg		0.25 mg/kg	0.000025 %		
		205-917-1	208-96-8							
5	acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-469-6	83-32-9							
6	fluorene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
		201-695-5	86-73-7							
7	phenanthrene				0.7 mg/kg		0.7 mg/kg	0.00007 %		
		201-581-5	85-01-8							
8	anthracene				0.49 mg/kg		0.49 mg/kg	0.000049 %		
		204-371-1	120-12-7							
9	fluoranthene				2.49 mg/kg		2.49 mg/kg	0.000249 %		
		205-912-4	206-44-0							
10	pyrene				2.71 mg/kg		2.71 mg/kg	0.000271 %		
		204-927-3	129-00-0							
11	benzo[a]anthracene				1.8 mg/kg		1.8 mg/kg	0.00018 %		
	601-033-00-9	200-280-6	56-55-3							
12	chrysene				2.23 mg/kg		2.23 mg/kg	0.000223 %		
	601-048-00-0	205-923-4	218-01-9							
13	benzo[b]fluoranthene				2.46 mg/kg		2.46 mg/kg	0.000246 %		
	601-034-00-4	205-911-9	205-99-2							
14	benzo[k]fluoranthene				1.42 mg/kg		1.42 mg/kg	0.000142 %		
	601-036-00-5	205-916-6	207-08-9							
15	benzo[a]pyrene; benzo[def]chrysene				2.95 mg/kg		2.95 mg/kg	0.000295 %		
	601-032-00-3	200-028-5	50-32-8							
16	indeno[123-cd]pyrene				1.06 mg/kg		1.06 mg/kg	0.000106 %		
		205-893-2	193-39-5							
17	dibenz[a,h]anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-041-00-2	200-181-8	53-70-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	benzo[ghi]perylene	205-883-8	191-24-2		1.58 mg/kg		1.58 mg/kg	0.000158 %		
19	coronene	205-881-7	191-07-1		0.44 mg/kg		0.44 mg/kg	0.000044 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1215-481-4		20.4 mg/kg	1.32	26.935 mg/kg	0.00269 %		
21	barium { barium oxide }	215-127-9	1304-28-5		183 mg/kg	1.117	204.321 mg/kg	0.0204 %		
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1		1.66 mg/kg	2.775	4.607 mg/kg	0.000461 %		
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8		3.66 mg/kg	3.22	11.785 mg/kg	0.00118 %		
24	cadmium { cadmium oxide }	048-002-00-0	215-146-2		<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8		<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %		<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7		46.3 mg/kg	1.126	52.129 mg/kg	0.00521 %		
27	lead { lead chromate }	082-004-00-2	231-846-0	1	259 mg/kg	1.56	403.992 mg/kg	0.0259 %		
28	mercury { mercury dichloride }	080-010-00-X	231-299-8		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
29	nickel { nickel chromate }	028-035-00-7	238-766-5		29.7 mg/kg	2.976	88.395 mg/kg	0.00884 %		
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8		42.8 mg/kg	1.785	76.406 mg/kg	0.00764 %		
32	zinc { zinc chromate }	024-007-00-3	236-878-9		121 mg/kg	2.774	335.672 mg/kg	0.0336 %		
33	TPH (C6 to C40) petroleum group		TPH		52.4 mg/kg		52.4 mg/kg	0.00524 %		
Total:								0.113 %		

Key

	User 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
	Newer version of determinand available
<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 concentration of: 1000 mg/kg (0.1%) because: No PID VOCs over detection and no diesel or oil detected

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00524%)

Classification of sample: HP04

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

Sample details

Sample name:	LoW Code:
HP04	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
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	• pH				8.96 pH		8.96 pH	8.96 pH		
2	phenol				<7 mg/kg		<7 mg/kg	<0.0007 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
3	naphthalene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
4	• acenaphthylene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
		205-917-1	208-96-8							
5	• acenaphthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		201-469-6	83-32-9							
6	• fluorene				0.19 mg/kg		0.19 mg/kg	0.000019 %		
		201-695-5	86-73-7							
7	• phenanthrene				2.06 mg/kg		2.06 mg/kg	0.000206 %		
		201-581-5	85-01-8							
8	• anthracene				1.01 mg/kg		1.01 mg/kg	0.000101 %		
		204-371-1	120-12-7							
9	• fluoranthene				6.74 mg/kg		6.74 mg/kg	0.000674 %		
		205-912-4	206-44-0							
10	• pyrene				5.84 mg/kg		5.84 mg/kg	0.000584 %		
		204-927-3	129-00-0							
11	benzo[a]anthracene				5.09 mg/kg		5.09 mg/kg	0.000509 %		
	601-033-00-9	200-280-6	56-55-3							
12	chrysene				5.81 mg/kg		5.81 mg/kg	0.000581 %		
	601-048-00-0	205-923-4	218-01-9							
13	benzo[b]fluoranthene				10.9 mg/kg		10.9 mg/kg	0.00109 %		
	601-034-00-4	205-911-9	205-99-2							
14	benzo[k]fluoranthene				5.16 mg/kg		5.16 mg/kg	0.000516 %		
	601-036-00-5	205-916-6	207-08-9							
15	benzo[a]pyrene; benzo[def]chrysene				12.7 mg/kg		12.7 mg/kg	0.00127 %		
	601-032-00-3	200-028-5	50-32-8							
16	• indeno[123-cd]pyrene				11.8 mg/kg		11.8 mg/kg	0.00118 %		
		205-893-2	193-39-5							
17	dibenz[a,h]anthracene				3.29 mg/kg		3.29 mg/kg	0.000329 %		
	601-041-00-2	200-181-8	53-70-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	benzo[ghi]perylene	205-883-8	191-24-2		10.6 mg/kg		10.6 mg/kg	0.00106 %		
19	coronene	205-881-7	191-07-1		2.9 mg/kg		2.9 mg/kg	0.00029 %		
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		20.2 mg/kg	1.32	26.671 mg/kg	0.00267 %		
21	barium { barium oxide }	215-127-9	1304-28-5		242 mg/kg	1.117	270.194 mg/kg	0.027 %		
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1		1.64 mg/kg	2.775	4.552 mg/kg	0.000455 %		
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8		0.9 mg/kg	3.22	2.898 mg/kg	0.00029 %		
24	cadmium { cadmium oxide }	048-002-00-0	215-146-2		<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8		<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %		<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7		52.8 mg/kg	1.126	59.447 mg/kg	0.00594 %		
27	lead { lead chromate }	082-004-00-2	231-846-0	1	133 mg/kg	1.56	207.455 mg/kg	0.0133 %		
28	mercury { mercury dichloride }	080-010-00-X	231-299-8		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
29	nickel { nickel chromate }	028-035-00-7	238-766-5		25.9 mg/kg	2.976	77.085 mg/kg	0.00771 %		
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8		35.8 mg/kg	1.785	63.91 mg/kg	0.00639 %		
32	zinc { zinc chromate }	024-007-00-3	236-878-9		81.2 mg/kg	2.774	225.261 mg/kg	0.0225 %		
33	TPH (C6 to C40) petroleum group		TPH		775 mg/kg		775 mg/kg	0.0775 %		
Total:								0.172 %		

Key

	User 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
	Newer version of determinand available
<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 concentration of: 1000 mg/kg (0.1%) because: No PID VOCs over detection and no diesel or oil detected

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0775%)

Classification of sample: HP12

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

Sample details

Sample name:	LoW Code:
HP12	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 11.6% 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	• pH		PH		9.18 pH		9.18 pH	9.18 pH		
2	• phenol	604-001-00-2	203-632-7	108-95-2	<7 mg/kg		<7 mg/kg	<0.0007 %		<LOD
3	• naphthalene	601-052-00-2	202-049-5	91-20-3	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
4	• acenaphthylene		205-917-1	208-96-8	0.19 mg/kg		0.19 mg/kg	0.000019 %		
5	• acenaphthene		201-469-6	83-32-9	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
6	• fluorene		201-695-5	86-73-7	0.07 mg/kg		0.07 mg/kg	0.000007 %		
7	• phenanthrene		201-581-5	85-01-8	0.98 mg/kg		0.98 mg/kg	0.000098 %		
8	• anthracene		204-371-1	120-12-7	0.59 mg/kg		0.59 mg/kg	0.000059 %		
9	• fluoranthene		205-912-4	206-44-0	3.3 mg/kg		3.3 mg/kg	0.00033 %		
10	• pyrene		204-927-3	129-00-0	3.14 mg/kg		3.14 mg/kg	0.000314 %		
11	• benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	3.76 mg/kg		3.76 mg/kg	0.000376 %		
12	• chrysene	601-048-00-0	205-923-4	218-01-9	3.64 mg/kg		3.64 mg/kg	0.000364 %		
13	• benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	7.37 mg/kg		7.37 mg/kg	0.000737 %		
14	• benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	3.47 mg/kg		3.47 mg/kg	0.000347 %		
15	• benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	9.66 mg/kg		9.66 mg/kg	0.000966 %		
16	• indeno[123-cd]pyrene		205-893-2	193-39-5	8.58 mg/kg		8.58 mg/kg	0.000858 %		
17	• dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	2.08 mg/kg		2.08 mg/kg	0.000208 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
18	benzo[ghi]perylene	205-883-8	191-24-2		6.69 mg/kg		6.69 mg/kg	0.000669 %		
19	coronene	205-881-7	191-07-1		1.84 mg/kg		1.84 mg/kg	0.000184 %		
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	16.3 mg/kg	1.32	21.521 mg/kg	0.00215 %		
21	barium { barium oxide }	215-127-9	1304-28-5		202 mg/kg	1.117	225.534 mg/kg	0.0226 %		
22	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.8 mg/kg	2.775	2.22 mg/kg	0.000222 %		
23	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	0.87 mg/kg	3.22	2.801 mg/kg	0.00028 %		
24	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.54 mg/kg	1.142	0.617 mg/kg	0.0000617 %		
25	chromium in Cr(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<5 mg/kg	1.923	<9.616 mg/kg	<0.000962 %		<LOD
26	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	98.2 mg/kg	1.126	110.562 mg/kg	0.0111 %		
27	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	128 mg/kg	1.56	199.656 mg/kg	0.0128 %		
28	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
29	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	23.5 mg/kg	2.976	69.942 mg/kg	0.00699 %		
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8			<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
31	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	41.8 mg/kg	1.785	74.621 mg/kg	0.00746 %		
32	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	278 mg/kg	2.774	771.213 mg/kg	0.0771 %		
33	TPH (C6 to C40) petroleum group		TPH		788 mg/kg		788 mg/kg	0.0788 %		
Total:								0.225 %		

Key

	User 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
	Newer version of determinand available
<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 concentration of: 1000 mg/kg (0.1%) because: No PID VOCs over detection and no diesel or oil detected

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0788%)

Appendix A: Classifier defined and non GB MCL determinands

• pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• **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

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

Description/Comments: Data from ECHA's C&L Inventory Database, Sigma Aldrich SDS dated 6/2/20

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/88825>

Data source date: 02 Apr 2020

Hazard Statements: Acute Tox. 3; H301, Skin Corr. 1B; H314, Eye Dam. 1; H318, Acute Tox. 1; H332

divanadium pentaoxide; vanadium pentoxide (EC Number: 215-239-8, CAS Number: 1314-62-1)

GB MCL index number: 023-001-00-8

Description/Comments: Hazard statements H301, H330, H350 added by HazWasteOnline due to ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List]. Substance has therefore been self-classified.

Additional Hazard Statement(s): Carc. 1B; H350, Acute Tox. 3; H301, Acute Tox. 2; H330

Reason for additional Hazards Statement(s):

20 Sep 2022 - Carc. 1B; H350 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be Carc. 1B; H350. The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].

Substance has therefore been self-classified.

28 Sep 2022 - Acute Tox. 3; H301 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 3; H301". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].

Substance has therefore been self-classified.

28 Sep 2022 - Acute Tox. 2; H330 hazard statement sourced from: ATP 18 (Regulation (EU) 2022/692) considers vanadium pentoxide to be "Acute tox 2; H330". The GB MCL Agency has reached the same opinion [but is yet to formerly make this change to the MCL List].

Substance has therefore been self-classified.

• **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

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015

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

• **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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

barium {barium oxide}

No chromium 6

beryllium {beryllium oxide}

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

boron {diboron trioxide; boric oxide}

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

cadmium {cadmium oxide}

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

chromium in Cr(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 (edit as required)

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

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. (edit as required)

vanadium {divanadium pentaoxide; vanadium pentoxide}

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

zinc {zinc chromate}

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

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2025.343.6918.12497 (09 Dec 2025)

HazWasteOnline Database: 2025.339.6914.12493 (07 Dec 2025)

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

GB MCL List v6.0 - version 6.0 of 15th February 2025

GB MCL List v7.0 - version 7.0 of 23rd September 2025