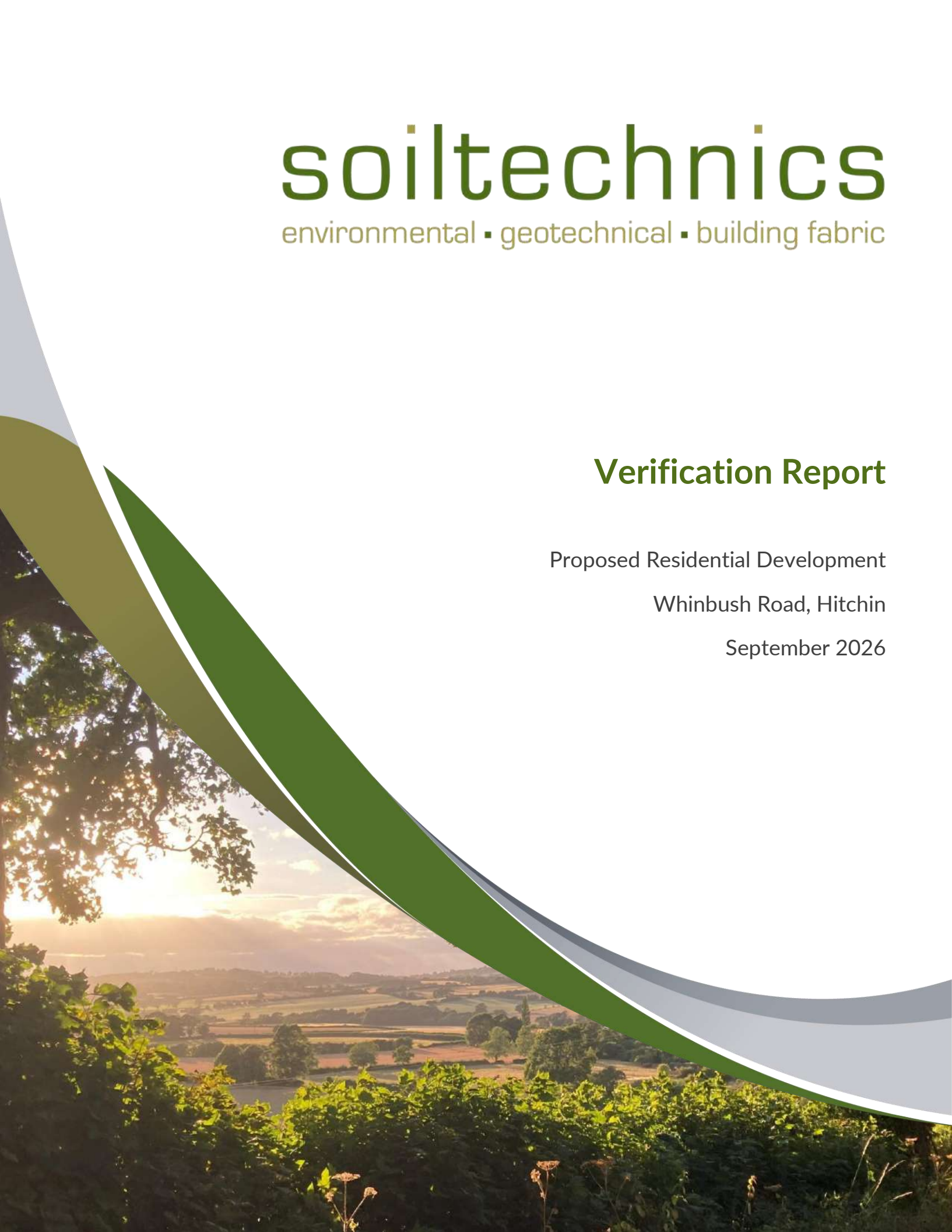




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environmental • geotechnical • building fabric

Verification Report

Proposed Residential Development

Whinbush Road, Hitchin

September 2026

Project Details

Site: Whinbush Road, Hitchin

Document Title: Verification Report

Document no.: STX7228-R01-Rev_A

Date: September 2026

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Document history and status

Revision	Date	Description	Author	Checker	Reviewer
A	September 2026	First Issue	Anna palmer MESci (Hons) Graduate Consultant	Kimberley Neville, PhD, CGeol, ASoBRA, SiLC, SQP Technical Director Jonny Beer BSc (Hons), MSc, FGS Senior Consultant	Mark Hamill SiLC, SQP, CEnv Technical Director



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Drawing Register

Title	Produced by	Date	Reference
Proposed Site Plan	Arcvelop Ltd	17.10.2022	P00A Rev 1
New dwelling - ground floor	Floorspan Contracts	12.03.2025	A28170-1 RevA

Previous Report Register

Title	Produced by	Date	Reference
Remedial Method Statement	Sevenoaks Environmental Consultancy Limited	January 2024	5551 24 01 15 Rpt 08 Rev A TI BB
Interim Validation Report for Remedial Work		December 2025	5551 25 09 11 Rpt 10 Rev A JH BB
Watching Brief and Waste Disposal Notes		April 2025	5551 25 04 02 Ltr Rpt 06 Rev A AK AR
Waste Classification Report	Haz Waste Online	January 2024	5551 Waste Classification
Hotspot Removal Verification	Soiltechnics	October 2025	L-STV6141-R03-Rev_B

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1 Introduction

1.1 Scheme Outline

- 1.1.1 The planning application details are summarised below, as stated on the local planning portal. A proposed layout is provided within Appendix A.

Topic	Detail
Local Authority	North Herts Council
Planning application reference	2/02953/FP
Address	81 and 81A Whinbush Road, Hitchin, Hertfordshire SG5 1PZ
Proposal	Erection of a three-storey building comprising of 8 residential apartments with associated parking and private amenity space.
Relevant Condition	Condition 11

Table 1-A: Planning Application Summary

- 1.1.2 The site is located on the north of Whinbush Road within the town of Hitchin.
- 1.1.3 The report is based on the project proposals and information outlined above; should the scheme change then it will be necessary to review the conclusions and recommendations presented in this report.

1.2 Brief

- 1.2.1 To facilitate the safe development of the project, a Remediation Strategy and Verification Plan was developed by a third-party consultancy, Sevenoaks Consultancy Ltd, report reference: 5551 24 01 15 Rpt 08 Rev A TI BB, dated January 2024.
- 1.2.2 Sevenoaks Consultancy Ltd were the consultant during the enabling works phase and were responsible for the oversight of remedial works during that phase. An Interim Verification Report was completed by Sevenoaks Environmental Consultancy Ltd, report reference: 5551 25 09 11 Rpt 10 Rev A, dated December 2025 and is included within Appendix B.
- 1.2.3 Soiltechnics have since taken over the role of Environmental Consultant for the development to provide verification of remaining remedial actions as detailed in the third-party Remediation Strategy.
- 1.2.4 The aim of this Verification Report is to present all relevant lines of evidence obtained directly by Soiltechnics and those provided by 3rd parties, to demonstrate the required remedial actions have been completed satisfactorily, and the site is suitable for use, in terms of the risks from contaminated land.

1.3 Investigation Standards

- 1.3.1 The investigation followed the principles of BS10175 '*Investigation of potentially Contaminated Sites – Code of Practice*'. The investigation was also undertaken with reference to the Environment Agency's online publication '*Land contamination risk management (LCRM)*'.

1.4 Limitations

- 1.4.1** Soiltechnics disclaims any responsibility to our Client and others in respect of any matters outside the scope of this report. This report has been prepared with reasonable skill, care and diligence in accordance with the terms of our contract, taking account of the resources, investigations and testing devoted to it by agreement with our Client. This report is confidential to our Client and Soiltechnics accepts no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known. Any such party relies upon the report at their own risk.

2 Site Conditions and Remedial Strategy

2.1 Previous Reports

2.1.1 Reference has been made to the following sources of information. The most pertinent reports have been included within Appendix B. Full copies of all documents can be provided upon request.

Author	Document Title	Date & Document Reference	Report Context
Sevenoaks Environmental Consultancy	Geo-Environmental Desk Study Report	October 2022 4996 22 10 10 Rpt 01 Rev 01 AK DA	Desk study report and development of conceptual site model.
	Geo-Environmental Site Investigation Report	August 2023 445 23 08 04 Rpt 01 Rev A BD BB	An interpretative geo-environmental report which included an intrusive phase of investigation works and a supplementary investigation.
	Ground Gas and Groundwater Addendum Letter Report	January 2024 5551 24 01 05 Ltr Rpt 07 TI BB	Provided upon completion of monitoring period.
	WM3 Waste Classification Assessment	January 2024 5457 24 01 18 Ltr Rpt 01 Rev A TI WS	Inform appropriate Waste Classification for disposal of arising.
	Supplementary Geo-Environmental Site Investigation Report	January 2024 5551 24 01 05 Ltr Rpt 07 Rev A TI BB	Supplementary ground investigation to satisfy LPA's comments for additional testing in proposed gardens, former UST and beneath existing building footprint.
	Remedial Method Statement	January 2024 5551 24 01 15 Rpt 08 Rev A TI BB	Remediation strategy and verification plan outlining relevant contaminant linkages and remedial work and verification required to mitigate risk to end users.
	Interim Validation Report for Remedial Work	December 2025 5551 25 09 11 Rpt 10 Rev A JH BB	Validation report for remedial works undertaken between 22/11/2023 and 20/03/2025.
Soiltechnics	Hotspot Removal Verification	October 2025 L-STV6141-R03-Rev_B	Additional site investigation in area of demolished building and subsequent hotspot removal.

Table 2-A: Summary of Previous Reports

2.2 Relevant Pollutant Linkages

2.2.1 The relevant pollutant linkages identified within the previous reports are as follows:

Source	Pathway	Receptor
TPH, PAHs and heavy metals within Made Ground	Dermal contact, ingestion and inhalation of dusts	Groundworkers
		End users
UST within beneath western side of site adjacent to site entrance	Dermal contact, ingestion and inhalation of dusts	End users
	Inhalation of vapour	End users
Organic contamination (PAHs) within Made Ground soils	Direct contact and permeation into potable water pipes	End users (via drinking water)
VOCs	Ingress into buildings	End users
Unexpected contamination	Unknown	Unknown

Table 2-B: Relevant pollutant linkages

2.3 Outline of Remedial Strategy

2.3.1 To mitigate the risks posed by the identified relevant contaminant linkages, the Remediation Strategy detailed the following remedial actions which required evidencing through verification works, specifically:

- Remedial Action A: Prepare a discovery strategy in the event of encountering unexpected or previously unencountered contamination.
- Remedial Action B: Establish a strategy for decommissioning and removal of below ground fuel storage tank.
- Remedial Action C: Establish a strategy for the delineation and removal of hotspot contamination in the southern area of the site.
- Remedial Action D: Establish a watching brief strategy for preparatory groundwork and waste segregation.
- Remedial Action E: Establish a clean cover system and installation of geotextile membrane for areas of proposed gardens and soft landscaped planting areas.
- Remedial Action F: Installation passively vented sub-floor voids within all new buildings.
- Remedial Action G: Installation of barrier pipe for underground drinking water infrastructure.

2.3.2 The following report sections address each remedial action in turn.

3 Remedial Action A – Discovery Strategy

3.1 Remedial and Verification Requirements

3.1.1 A contamination discovery protocol was established by Sevenoaks Environmental Ltd, who had oversight of the scheme during the enabling works phase.

3.2 Contamination Discovery Event

3.2.1 Sevenoaks Environmental Consultancy reported that a single discovery event was triggered during the watching brief for the foundation dig within the vicinity of Flats 1 and 2. Impacted soils were noted to be stained black, exhibit a strong hydrocarbon odour and gave elevated PID readings (actual value not reported).

3.2.2 The location of the unexpected contamination hotspot below Flats 1 and 2 is highlighted in yellow below.

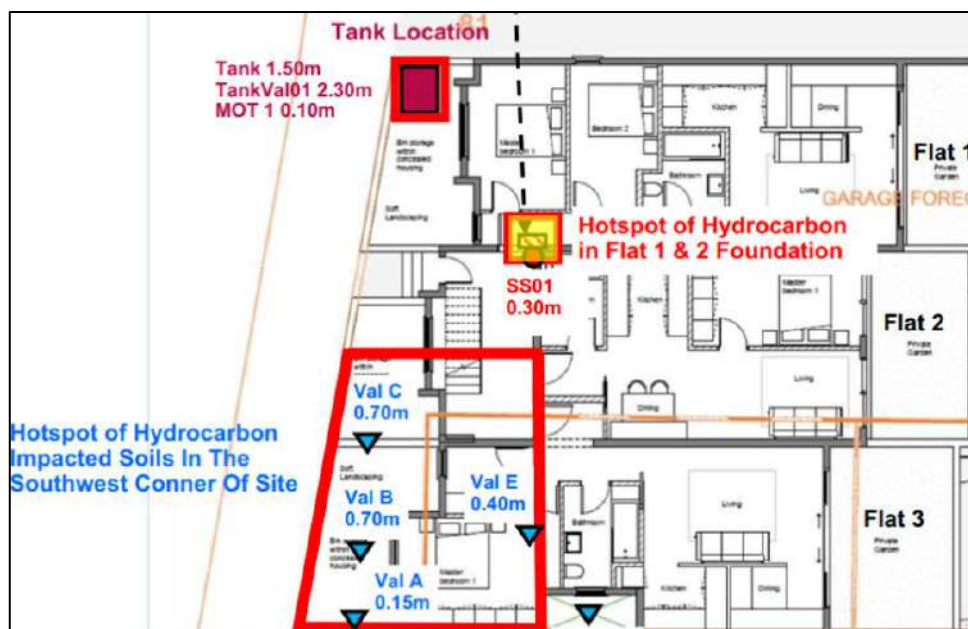


Figure 3-A: Location of unexpected contamination hotspot (yellow)

3.2.3 Sevenoaks oversaw the hotspot removal remedial works where they were confident all impacted materials was chased out, excavated and segregated for off-site removal, based on visual and olfactory evidence, as detailed within the Interim Validation Report for Remedial Work (ref: 5551 25 09 11 Rpt 10 Rev A JH BB), Section 3.5. It was not specified whether the Local Authority was informed.

3.2.4 The initial verification testing undertaken by Sevenoaks Environmental Consultancy detected TPH. However the testing comprised of banded TPH, and was not speciated into aromatic and aliphatic factions, so an accurate risk assessment was not possible. Soiltechnics subsequently returned to site to undertake supplementary sampling and analysis, which is presented within the Hotspot Removal Verification Report (ref: STV6141-R03-Rev_B), within Appendix B. The supplementary testing, which included TPH CWG analysis confirmed that the remaining in-situ materials posed minimal risk.

3.2.5 Soiltechnics have not been made aware of any further discovery events have been triggered during the build programme.

4 Remedial Action B – Removal of USTs and Associated Impacted Soils

4.1 Remedial and Verification Requirements

- 4.1.1 A 500-gallon underground storage tank (UST) was identified located beneath the western side of the site, adjacent to the site entrance.
- 4.1.2 Decommissioning and removal of the underground storage tank and surrounding material impacted by hydrocarbon contamination was required, therefore removing the source of contamination identified and the risk to the end users.
- 4.1.3 A Geoenvironmental Consultant was required to be present during all UST removals to aid in the identification and segregation of contaminated soils for off-site removal, provide a photographic record of works and undertake chemical verification sampling and testing of remaining soils to demonstrate no unacceptable contamination remains.
- 4.1.4 The location of the UST is highlighted in green in the figure below.

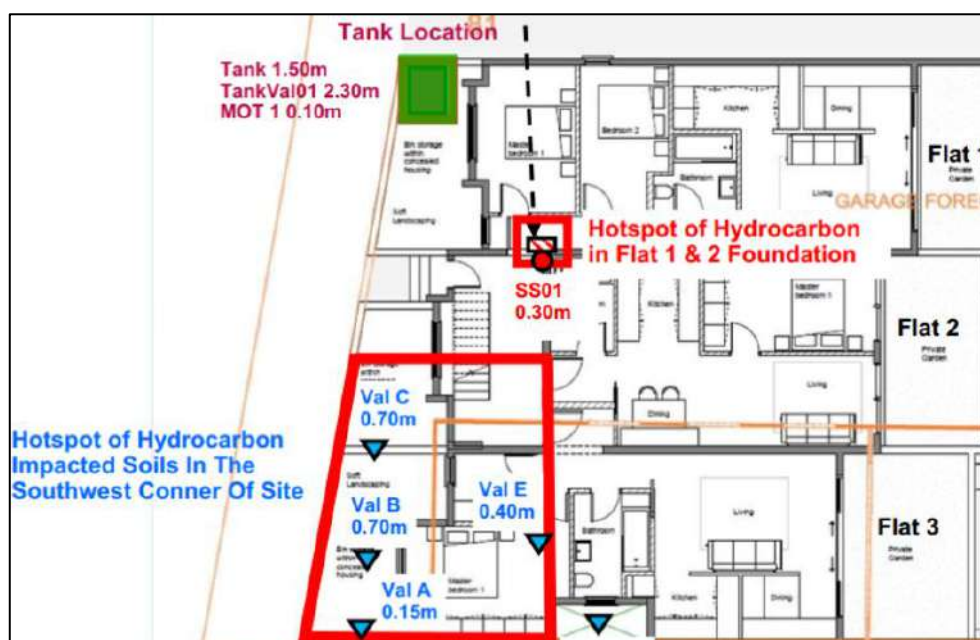


Figure 4-A: Location of UST highlighted in green

4.2 Completion of Works

- 4.2.1 The remedial works were completed by Sevenoaks Environmental Consultancy and are detailed within the Interim Validation Report for Remedial Works included in Appendix B.
- 4.2.2 This remedial action is considered to have been satisfactorily addressed.

5 Remedial Action C - Hot Spot Removal

5.1 Remedial and Verification Requirements

- 5.1.1 A hotspot was identified in the southwestern area of the development where hydrocarbon contamination was encountered during the ground investigation. The area where hydrocarbon impacted soils was identified is highlighted blue in the figure below.

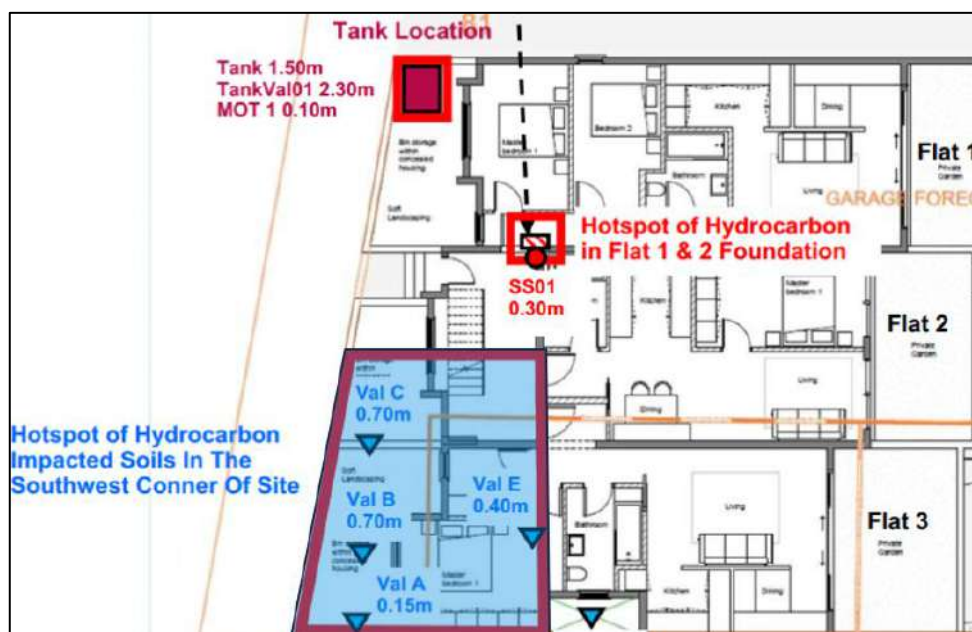


Figure 5-A: Location of hydrocarbon hotspot in southwestern corner (blue)

- 5.1.2 The removal of impacted soils was required as per the Remediation Strategy. Where a clean cover system was to be installed in the southwestern corner, this negated the requirement for the full vertical extent of the hotspot contamination to be removed.
- 5.1.3 As noted in the Remediation Strategy the remedial excavation was required to be to a depth of 0.60m bgl, shallowing to 0.30m bgl if it extended below the building footprint. The clean cover system is discussed in Section 7.

5.2 Removal of Impacted Soils

- 5.2.1 A watching brief was undertaken by Sevenoaks Environmental Ltd showing the excavation of soils in the southwest area of the site. The excavation measured approximately 3m x 6m to a depth of 0.60m bgl, as stipulated by the Remediation Strategy. The watching brief and waste disposal notes are presented within Appendix B.

5.3 Chemical Verification Sampling

- 5.3.1 Five soil samples were collected for laboratory analysis and tested for lead, zinc, TPH and speciated PAHs. There were no exceedances of the contaminants for concern above the Remedial Target Values. Sevenoaks concluded no impacted soils were left in situ, however Sevenoaks Environmental Consultancy were not present during backfilling of the remedial excavation.
- 5.3.2 Sevenoaks Environmental Consultancy confirmed that no further remedial excavation was required in relation to the former tank.

6 Remedial Action D – Made Ground Removal

6.1 Remedial and Verification Requirements

- 6.1.1 A watching brief was required for all preparatory work and segregation of Made Ground. All waste generated during the remedial work and to facilitate the proposed development was disposed of off-site.
- 6.1.2 A cover system was required in all soft landscaping areas therefore negating the requirement for the full removal of Made Ground.

6.2 Removal of Made Ground

- 6.2.1 A watching brief record undertaken by Sevenoaks Environmental Ltd is included within the Summary Statement for Contaminated Land Remedial Work (ref: 5551 25 04 02 Ltr Rpt 06 Rev A AK AR), provided in Appendix B.
- 6.2.2 The report shows the breaking out of hardstanding and segregation of waste stockpiles.

6.3 Material Disposal

- 6.3.1 Made Ground was segregated by material type and stockpiled prior to removal. Relevant WM3 assessments and WAC testing of Made Ground are included within the Waste Classification Report (ref: 4551 24 01 22 Rpt 04 Rev A TI BB) and within Interim Validation Report, both presented in Appendix B.
- 6.3.2 Waste transfer tickets confirming disposal offsite are included within Summary Statement for Contaminated Land Remedial Work and Interim Validation Report.

7 Remedial Action E – Verification of Clean Cover

7.1 Remedial and Verification Requirements

- 7.1.1 In areas of hard landscaping, no remedial works were considered necessary.
- 7.1.2 In all areas of soft landscaping / gardens the cover system was required to be 600mm thick, comprising of 300mm of imported 'clean' topsoil and 300mm of imported 'clean' subsoil, laid over a high visibility geotextile marker layer.
- 7.1.3 All materials utilised in the cover system were required to be chemically suitable with laboratory testing required to confirm suitability of the material at a minimum testing frequency of one sample per material type per source per landscaped area (no volume-specific sampling frequency required).
- 7.1.4 On site inspections were required to confirm the minimum thickness and adequate installation of the cover system. Based upon the overall development proposals, inspection pits were required in all soft landscaped areas.

7.2 Material Source and Volume

- 7.2.1 There are two areas of soft landscaping in the south, and cover soil volume estimates have been made based on those areas.
- 7.2.2 Delivery certificates were not made available to confirm the overall volume of topsoil and subsoil material imported.
- 7.2.3 The volume of topsoil and subsoil used across the verified soft landscaped areas to date has been estimated at 30m³ subsoil and 30m³ topsoil (based on 100m² of landscaping, 0.3m thickness topsoil and 0.3m thickness subsoil). 100m² of landscaping is based on an approximate area from the proposed development plans.
- 7.2.4 Pre-delivery testing of topsoil is provided within Appendix C.

7.3 Clean Cover Inspection & Geotextile Membrane

- 7.3.1 Areas of soft landscaping are limited to the southwest of the site. Soiltechnics have undertaken two site visits to inspect the placement of the clean cover system, on the 9th July 2026 and 21st August 2026. The pit inspection records and site diary are provided within Appendix D.
- 7.3.2 The below table outlines inspection pits completed by Soiltechnics to date.

Plots covered	Date inspected	Total pits completed	Plots inspected	Required frequency	Frequency achieved
Planting areas	09.07.2026	4 (insufficient cover)	2	1 per planting area	1 per planting area
	21.08.2026	2			

Table 7-A: Summary of inspection pits

- 7.3.3 The first site inspection recorded soils to be of insufficient depth in all cases (>600mm). The developer was informed of the deviation and instructed to rectify the cover system depth.
- 7.3.4 A return visit was undertaken on the 21st August 2026 to reinspect the planting areas. This was to confirm the contractors works to rectify the gardens and deepen the cover system was satisfactory.

- 7.3.5 An orange geotextile membrane was encountered in planting area (north) at 0.60m bgl. Due to pea gravel (assumed to be service trenches) being encountered at 0.86m bgl within planting area (south), the geotextile membrane was not observed. A cover thickness of 0.86m bgl is deemed to be sufficient to protect against underlying Made Ground, despite no membrane being observed. It should be noted that the yellow geotextile membrane shown within the site diary is assumed to overly services and is distinct from the geotextile at the base of the cover system shown below.
- 7.3.6 The contractor has supplied further evidence to substantiate the reduced level dig and placement of geotextile membrane, shown below. Soiltechnics have not independently verified suitable placement of the geotextile membrane.

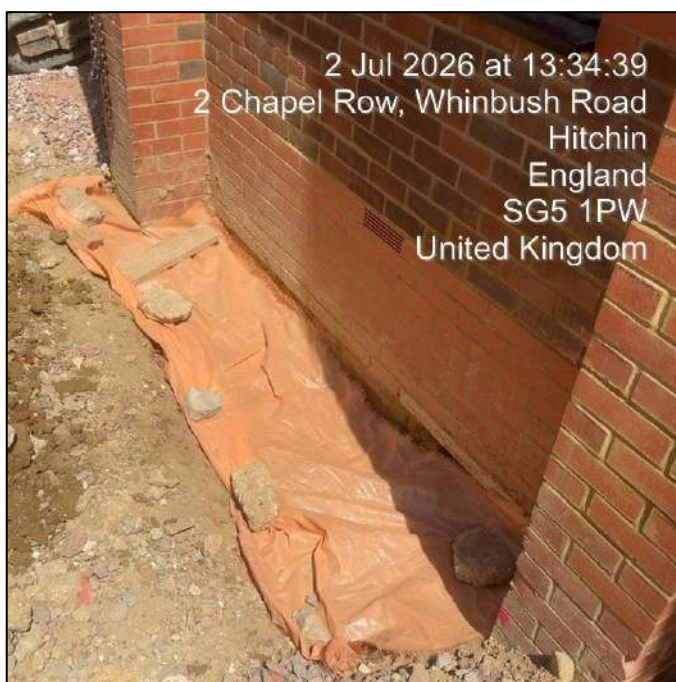


Figure 7-A: Example of geotextile membrane placement



Figure 7-B: Example of geotextile membrane placement



Figure 7-C: Example of geotextile membrane placement

- 7.3.7 Following the 2 visits for clean cover inspection within planting areas north and south, Soiltechnics have noted that infrequent anthropogenic materials such as rare blunt glass fragments, plastic and fabric mesh are present within the soils.

7.4 Contamination Observations

- 7.4.1 No visual or olfactory evidence of contamination was noted within the cover soils. No suspected ACMs were identified by the contractor.

7.5 Physical Verification

- 7.5.1 Infrequent anthropogenic material was encountered within the soils including brick, and rare blunt glass fragments, plastic and fabric mesh.

7.6 Chemical Verification

- 7.6.1 Two composite samples of soils and one sample from the stockpiled topsoil were collected and sent for laboratory testing.
- 7.6.2 The below table details testing undertaken to date and resulting frequency.

Material	No. of tests	Volume used to date	Required frequency	Frequency achieved
Topsoil	3	~30m ³	2 (1 per area)	3
Subsoil	3	~30m ³	2 (1 per area)	3

Table 7-B: Summary of testing

- 7.6.3 Samples obtained from site were sent to an independent accredited laboratory for chemical analysis, and the samples were handled in accordance with BS ISO 18400-105:2017 'Soil quality — Sampling Part 105: Packaging, transport, storage and preservation of samples'.

- 7.6.4 The chemical laboratory test results for the topsoil and subsoil tested from gardens are presented in Appendix E, and the GQRA screening assessment is presented in Appendix F.
- 7.6.5 The results have been screened using the C4SL and S4UL generic assessment criteria, under a residential with plant uptake scenario at 2.5% SOM.
- 7.6.6 There are minor exceedances of benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. However, the exceedances are marginal and within an order of magnitude of the guideline values. Furthermore, the GACs used are highly conservative as they are for a residential with plant uptake scenario, whereas the cover system has been installed in areas of public planting adjacent to an apartment block. Therefore, exposure to the soils is expected to be far less frequent therefore reducing risk. A comparison with POS (residential) GACs has been undertaken for context and only one very marginal exceedance for dibenz(a,h)anthracene (0.6 mg/kg vs 0.57 mg/kg) has been noted.
- 7.6.7 Considering the above the topsoil is considered suitable for use within the cover system.

7.7 Conclusion

- 7.7.1 Overall, the soils are considered to be suitable for use, in terms of the risks from land contamination. Whilst Soiltechnics acknowledges that the membrane was not observed in planting area (south) due to obstructions relating to service corridors, representing a deviation from the Remediation Strategy, a cover system depth of 0.86m and contractor supplied information is deemed sufficient to verify this requirement.

8 Remedial Action F – VOC Protection Measures

8.1 Remedial Requirement

- 8.1.1 The Remediation Strategy reported that elevated concentrations of VOCs were recorded and the development should include a passively ventilated sub-floor voids beneath suspended floor slabs.

8.2 Verification

- 8.2.1 The contractor has provided the block and beam design which shows the ventilated subfloor voids, provided within Appendix A.
- 8.2.2 Further to this, evidence of the subfloor void and venting was observed during a site visit on the 26th September 2026 and photographic evidence of the void space and vents is presented below.



Figure 8-A: Subfloor void



Figure 8-B: Example of external vents (highlighted in red)

9 Remedial Action G – Drinking Water Infrastructure

9.1 Remedial and Verification Requirements

- 9.1.1 To address risk from residual hydrocarbon contamination across the site permeating into below ground drinking water infrastructure, barrier pipe was required to be installed for all new below-ground water supply pipes.
- 9.1.2 The verification of the installation was to be evidenced by the provision of delivery tickets showing protective barrier pipe has been delivered to site, and by providing photographs showing the subsequent installation.

9.2 Verification

- 9.2.1 The contractor has provided a series of photographs showing the installation of protective barrier pipe, with a selection of these photographs presented below and a full copy can be provided upon request.
- 9.2.2 The photographs clearly show the brown stripe on the blue pipework, denoting the pipe as a barrier type. The photographs also include spatial evidence, placing the pipe at the development site.



Figure 9-A: Spatial photograph of barrier pipe installation



Figure 9-B: Example of protective barrier pipe installation

10 Final Remarks, Monitoring & Maintenance

10.1 Remedial Works Conclusion

10.1.1 Verification works were undertaken in part by Sevenoaks Environmental Ltd and Soiltechnics Ltd, and comprised of site visits, watching briefs, inspections, a review of contractor supplied records, and sampling and analysis of materials. A summary of remedial works undertaken and subsequent verification is presented below.

Remedial Action	Verification	Comment
A Discovery strategy	A single discovery event triggered under Seven Oaks Environmental Consultancy. Hotspot removal verification under separate report.	No further works required.
B Decommissioning of UST	Completed by Sevenoaks Environmental Consultancy.	No further works required.
C Hotspot removal	Completed by Sevenoaks Environmental Consultancy.	No further works required.
D Preparatory work and waste segregation	Completed by Sevenoaks Environmental Consultancy.	No further works required.
E Clean cover system	Completed.	No further works required.
F Vapour protection	Completed	No further works required.
G Drinking water barrier pipe	Completed.	No further works required.

Table 10-A: Summary of remedial and verification works

10.2 Post Construction Monitoring

10.2.1 No post construction monitoring is required.

10.3 Long Term Maintenance

10.3.1 Post completion and following occupation of the buildings, landscaping and maintenance works may disturb or damage the clean cover system. Based upon the levels of contamination encountered and the site setting, it is considered unlikely that the cover system would be damaged in a way sufficient to compromise the protection of human health. As such, there is no formal monitoring or maintenance necessary for upkeep of the cover system.

10.3.2 All buildings have passive ventilation which will be adequately protected by the building throughout the lifespan of the property and do not require regular upkeep. However, they should be kept uncovered and clear of detritus.

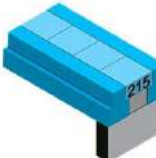
Appendix A Drawings



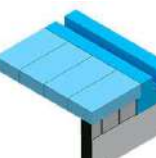
Section: A-A



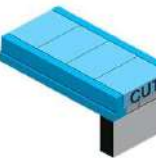
Section: B-B



Section: F-F



Section: G-G



Section: L-L

Allowance made for 27kN/m line load for the stairtoe. Stair supplier to confirm loading prior to beam and block installation.



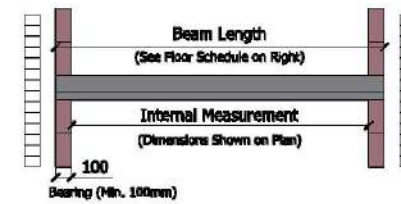
Beam & Block Install Video

Initial design date: 12/03/25

Rev A KS 28/03/25
Layout has been amended as per latest drawing available

BEAM LENGTHS ARE SHOWN IN
THE FLOOR SCHEDULE

PLEASE CHECK DIMENSIONS, LOADINGS AND FINISHES



Typical Section

Please note the use of 225mm beams where marked with 9". Mechanical means will be necessary to move these. Approximate weight per linear metre is 57kg. Please make an allowance in blockwork by 75mm for bearing of different beam depths

No allowance has been made for any SVPs

No allowance has been made for any newel posts. Customer to confirm and engage with Floorspan if necessary

The loading of the internal partition dashed in red remains unknown. 3.6 kN/m has been allowed. Customer to confirm

Please sign & return this drawing to indicate approval of the beam lengths and design specification. We recommend you take advice from a design professional. Submitted layouts marked as 'no comment' will be taken as fully approved.

Signed.....
Print Name.....
Date.....

Air Brick Colour
Red.....
Buff.....
Brown.....
Black.....

Loadings	Imposed Load
Finishes	1.5 kN/m ²
Screed & Finishes	75mm 1.62 kN/m ²

Block Walls Where Dashed 3.6 kN/m

Notes

- Our quotation is based on this drawing. It is the clients responsibility to check the information on this drawing and advise Floorspan Contracts of any errors or variations immediately. Any changes may result in a new price being issued.
- Stated loadings must not be exceeded.
- Over wider spans a levelling screed may be necessary if timber floating floors are to be used.
- Garage floors are designed with a 2.5kN/m² Imposed Load or a 10kN Point Load. They must be finished with a minimum 50mm thick 25N/mm² concrete screed reinforced with 1 layer of A98 Mesh (please advise). Please note: Jacking of vehicles with a weight of over 1.5 tonnes is not permitted within stated garage loadings.
- Structural double or triple beams must take priority over the position of soil/vent pipes.
- In all cases components and workmanship will be in accordance with our technical specification and terms & conditions, a copy of which is available via www.floorspan.co.uk

Blocks Medium Density 1450kg/m³ 170m² nett

Floor Schedule

150mm lightbeam - EC2 Compliant

Bay	No	Typ	Lgth	Ref	Bay	No	Typ	Lgth	Ref
2	1	T4	2500		4	3	T4	1700	
5	5	T4	3525		7	1	T4	2500	
11	2	T4	3175		12	1	T4	2500	

LD225mm

Bay	No	Typ	Lgth	Ref	Bay	No	Typ	Lgth	Ref
1	27	N3T	5125	9"	3	16	N3T	5350	9"
6	7	N3T	5350	9"	8	5	N3T	4900	9"
9	8	N3T	3800	9"	10	11	N3T	4900	9"

Manufactured in 50mm increments

Floor Area	Floor Weight
188.20 m ²	21.97 tonnes

Job Title New dwelling - ground floor

Site 81 Whinbush Road
Hitchin
SG5 1PZ



FLOORSPAN
CONTRACTS

T: 01945 476 161 e: enquiries@floorspan.co.uk

Drawing No	Drawn By	Checked By
A28170-1 RevA	KS	

A minimum of 4 cycle parking space required, located in a secure undercover lockable compound.

81a

Private house

Private garden

Electric charging port

No81 Parking space

BIN STORAGE AREA FOR RESIDENTIAL FLATS.
All bins will be enclosed within metal housing with lid.

Recycling 1x1100L
Refuse 1x660L
Food 1x240L
Paper 1x240L

A minimum of 10 cycle parking space required, located in a secure undercover lockable compound; 10 at the rear and 6 at the front.

81

Front metal entrance gate for residents

Electric charging ports to each parking space.

P1

P2

P3

P4

P5

P6

P7

P8

PARKING.
8 private car parking spaces.

6 visitor cycle parking spaces in total:

- 2x wall mounted Sheffield stands.
- 2x floor mounted Sheffield stands.

Planting

Private garden

Private garden

Private garden

Planting

NOTE:

Architectural Information - the level of detail shown on the drawings is relative to the submission of a PLANNING APPLICATION.

The drawings should therefore not be used for any other purpose without both the prior agreement of the architect, and subsequent checking / development by others. Dimensions and setting out - should be checked on site; see above.

Structure & Construction - these drawings, unless expressly noted otherwise, have not been fully coordinated with a Structural Engineer's input and show indicative construction build-up only.

Building Control - the client / the contractor will liaise directly with Local Authority to ensure the project is completed in accordance with the Building Regulations.

Planning - the client/ the contractor will ensure that the project is completed in accordance with the approved Planning drawings and take responsibility for the discharge of any planning conditions.

Party Walls & Rights to Light - the client/ the contractor will ensure that any notices and consents required are obtained before work commences.

Freeholder / Leaseholder / Restricted covenants / Easement approvals - the client will ensure that any notices and consents required are obtained before work commences.

Archaeological & Ecological - the client/ the contractor will ensure that any notices and consents required are obtained before work commences.

NOTE:
Glazing Allowances will need to be negotiated with Building Control as per Approved Document L1B Conservation of Fuel and Power.

Areas provided on drawings are rounded to the nearest whole unit. Measurements are based upon received survey information and as such a reasonable allowance should be made for discrepancies or deviations that may occur during construction.

Revisions

No.	Description	Date
1	Full Planning	17/10/22

PROPOSED

Note: Do not scale from this drawing. All dimensions to be checked on site by the contractor and to be his responsibility.

Arcvelop Ltd.
22 Pembroke Villas
Kensington
London
W8 6NT
T 0207 696 0703
E info@arcvelop.com
Project Name: 81A Whitnash Road
Project Number: 10015

Drawing Name
Proposed Site Plan
Drawing No
P00A
Revision
1
Scale
1:50 @ A1, 1:100 @ A3

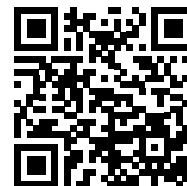
Av

Appendix B Relevant Previous Reports

Waste Classification Report

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

- 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)



YN8ZX-4OW2O-66TPG

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

Job name

5551 Waste Classification

Description/Comments

Project

5551

Site

Whinbush

Classified by

Name: **Sam Willis**
Date: **10 Jan 2024 10:16 GMT**
Telephone: **01892 822999**
Company: **Sevenoaks Environmental Consultants**

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	Date
Hazardous Waste Classification	50% complete

Purpose of classification

2 - Material Characterisation

Address of the waste

81/81A Whinbush Road, Hitchin

Post Code **SG51PZ**

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

redevelopment of the site

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

soils generated during excavations

Description of the waste

Made Ground and Natural soils

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results			Page
					Inert	SNRHW	Hazardous	
1	HP201-0.15-13/12/2023	0.15	Non Hazardous		N/A	Pass	Pass	3
2	MOT 1-0.10-13/12/2023	0.10	Non Hazardous		N/A	-	-	5
3	TP01-0.15-13/12/2023	0.15	Non Hazardous		N/A	Pass	Pass	8
4	TP01-0.50-13/12/2023	0.50	Non Hazardous		N/A	Pass	Pass	10
5	TP01-1.30-13/12/2023	1.30	Non Hazardous		N/A	Pass	Pass	12
6	HP103-0.05-15/11/2023	0.05	Non Hazardous		-	-	-	14
7	HP103-0.15-15/11/2023	0.15	Hazardous	HP 3(i), HP 7, HP 11	N/A	-	-	15
8	HP103-0.25-15/11/2023	0.25	Hazardous	HP 3(i), HP 7, HP 11	-	-	-	21
9	HP103-0.75-15/11/2023	0.75	Hazardous	HP 3(i), HP 7, HP 11	-	-	-	25
10	HP103-1.20-15/11/2023	1.20	Non Hazardous		-	-	-	28
11	HP102-0.05-15/11/2023	0.05	Hazardous	HP 3(i), HP 7, HP 11	-	-	-	31
12	HP102-0.25-15/11/2023	0.25	Non Hazardous		N/A	-	-	34
13	HP102-1.00-15/11/2023	1.00	Non Hazardous		-	-	-	39
14	HP101-0.025-15/11/2023	0.025	Hazardous	HP 3(i), HP 7, HP 11	-	-	-	42
15	HP101-0.10-15/11/2023	0.10	Hazardous	HP 3(i), HP 7, HP 11	N/A	-	-	44
16	HP101-0.50-15/11/2023	0.50	Non Hazardous		-	-	-	50
17	HP101-1.00-15/11/2023	1.00	Non Hazardous		-	-	-	53
18	Stockpile-0.00-15/11/2023	0.00	Non Hazardous		N/A	-	-	56
19	WS01-0.20-18/07/2023	0.20	Hazardous	HP 14	N/A	-	-	59
20	WS01-0.70-18/07/2023	0.70	Hazardous	HP 14	N/A	-	-	63
21	WS01-2.15-18/07/2023	2.15	Non Hazardous		-	-	-	67
22	WS02-0.20-18/07/2023	0.20	Non Hazardous		N/A	-	-	68
23	WS02-0.50-18/07/2023	0.50	Non Hazardous		N/A	-	-	71
24	WS03-0.025-18/07/2023	0.025	Non Hazardous		-	-	-	74
25	WS03-0.20-18/07/2023	0.20	Non Hazardous		N/A	-	-	76
26	WS04-0.50-18/07/2023	0.50	Non Hazardous		N/A	-	-	79
27	WS05-0.25-18/07/2023	0.25	Non Hazardous		N/A	-	-	82
28	HP01-0.05-18/07/2023	0.05	Hazardous	HP 8	N/A	-	-	85

Related documents

#	Name	Description
1	23-15326.1.hwol	DETS South .hwol file used to populate the Job
2	23-14246.2.hwol	DETS South .hwol file used to populate the Job
3	23-09812.1.hwol	DETS South .hwol file used to populate the Job

WAC results

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate the samples in this Job: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

Report

Created by: Sam Willis

Created date: 10 Jan 2024 10:16 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	91
Appendix B: Rationale for selection of metal species	94
Appendix C: Version	95

Classification of sample: HP201-0.15-13/12/2023

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

Sample details

Sample name:	LoW Code:
HP201-0.15-13/12/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.15 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.1%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 21.1% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	● pH				8.6 pH		8.6 pH	8.6 pH		
2	● polychlorobiphenyls; PCB				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.00001 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

WAC results for sample: HP201-0.15-13/12/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample PASSES the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	2.6	3	5	6
2	LOI (loss on ignition)	%	6.1	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.05	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	1512	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	80.8	100	-	-
7	pH	pH	8.6	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	2.2	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.159	0.5	2	25
10	barium	mg/kg	0.781	20	100	300
11	cadmium	mg/kg	0.002	0.04	1	5
12	chromium	mg/kg	0.029	0.5	10	70
13	copper	mg/kg	0.198	2	50	100
14	mercury	mg/kg	0.0009	0.01	0.2	2
15	molybdenum	mg/kg	0.773	0.5	10	30
16	nickel	mg/kg	0.0767	0.4	10	40
17	lead	mg/kg	0.909	0.5	10	50
18	antimony	mg/kg	0.144	0.06	0.7	5
19	selenium	mg/kg	0.0124	0.1	0.5	7
20	zinc	mg/kg	0.7	4	50	200
21	chloride	mg/kg	46	800	15,000	25,000
22	fluoride	mg/kg	<1	10	150	500
23	sulphate	mg/kg	218	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	520	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	1482	4,000	60,000	100,000

Key

	User supplied data
	Not applicable

Classification of sample: MOT 1-0.10-13/12/2023

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

Sample details

Sample name:	LoW Code:
MOT 1-0.10-13/12/2023	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)
3.1%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 3.1% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		antimony { antimony trioxide }				2.9 mg/kg	1.197	3.364 mg/kg	0.000336 %	✓	
		051-005-00-X	215-175-0	1309-64-4							
2		arsenic { arsenic trioxide }				15 mg/kg	1.32	19.191 mg/kg	0.00192 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
3		boron { diboron trioxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
		005-008-00-8	215-125-8	1303-86-2							
4		cadmium { cadmium oxide }				0.9 mg/kg	1.142	0.996 mg/kg	0.0000996 %	✓	
		048-002-00-0	215-146-2	1306-19-0							
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				8 mg/kg	1.462	11.33 mg/kg	0.00113 %	✓	
			215-160-9	1308-38-9							
6		chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD
		024-017-00-8									
7		copper { dicopper oxide; copper (I) oxide }				41 mg/kg	1.126	44.73 mg/kg	0.00447 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
8		lead { lead chromate }			1	156 mg/kg	1.56	235.788 mg/kg	0.0151 %	✓	
		082-004-00-2	231-846-0	7758-97-6							
9		mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD
		080-010-00-X	231-299-8	7487-94-7							
10		nickel { nickel chromate }				8 mg/kg	2.976	23.072 mg/kg	0.00231 %	✓	
		028-035-00-7	238-766-5	14721-18-7							
11		selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
		028-031-00-5	239-125-2	15060-62-5							
12		zinc { zinc sulphate }				78 mg/kg	2.469	186.634 mg/kg	0.0187 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
13		TPH (C6 to C40) petroleum group				76 mg/kg		73.644 mg/kg	0.00736 %	✓	
				TPH							
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
		006-007-00-5									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	• pH		PH		9 pH		9 pH	9pH		
16	naphthalene				0.13 mg/kg		0.126 mg/kg	0.0000126 %	✓	
	601-052-00-2	202-049-5	91-20-3							
17	• acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
18	• acenaphthene				0.26 mg/kg		0.252 mg/kg	0.0000252 %	✓	
		201-469-6	83-32-9							
19	• fluorene				0.32 mg/kg		0.31 mg/kg	0.000031 %	✓	
		201-695-5	86-73-7							
20	• phenanthrene				2.02 mg/kg		1.957 mg/kg	0.000196 %	✓	
		201-581-5	85-01-8							
21	• anthracene				0.52 mg/kg		0.504 mg/kg	0.0000504 %	✓	
		204-371-1	120-12-7							
22	• fluoranthene				1.76 mg/kg		1.705 mg/kg	0.000171 %	✓	
		205-912-4	206-44-0							
23	• pyrene				1.45 mg/kg		1.405 mg/kg	0.000141 %	✓	
		204-927-3	129-00-0							
24	benzo[a]anthracene				0.53 mg/kg		0.514 mg/kg	0.0000514 %	✓	
	601-033-00-9	200-280-6	56-55-3							
25	chrysene				0.49 mg/kg		0.475 mg/kg	0.0000475 %	✓	
	601-048-00-0	205-923-4	218-01-9							
26	benzo[a]pyrene; benzo[def]chrysene				0.42 mg/kg		0.407 mg/kg	0.0000407 %	✓	
	601-032-00-3	200-028-5	50-32-8							
27	• indeno[123-cd]pyrene				0.18 mg/kg		0.174 mg/kg	0.0000174 %	✓	
		205-893-2	193-39-5							
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	• benzo[ghi]perylene				0.15 mg/kg		0.145 mg/kg	0.0000145 %	✓	
		205-883-8	191-24-2							
30	• monohydric phenols				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
			P1186							
31	barium { • barium sulphide }				665 mg/kg	1.233	794.845 mg/kg	0.0795 %	✓	
	016-002-00-X	244-214-4	21109-95-5							
32	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg	<0.0003 %		<LOD
	615-018-00-X	203-985-7	112-56-1							
33	• benzo[bk]fluoranthene				0.54 mg/kg		0.523 mg/kg	0.0000523 %	✓	
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
Total:								0.134 %		

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because **No free product**

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00736%)

WAC results for sample: MOT 1-0.10-13/12/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	5.9	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	9	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value
	SNRHW WAC criteria fail

Classification of sample: TP01-0.15-13/12/2023



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

Sample details

Sample name:	LoW Code:	
TP01-0.15-13/12/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.15 m		
Moisture content:		
14%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	pH PH				9.6 pH		9.6 pH	9.6 pH		
2	polychlorobiphenyls; PCB 602-039-00-4 215-648-1 1336-36-3				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
Total:								0.00001 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

WAC results for sample: TP01-0.15-13/12/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample PASSES the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample PASSES the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1	3	5	6
2	LOI (loss on ignition)	%	4.7	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.05	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	498	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1.7	100	-	-
7	pH	pH	9.6	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	2	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.092	0.5	2	25
10	barium	mg/kg	0.16	20	100	300
11	cadmium	mg/kg	<0.002	0.04	1	5
12	chromium	mg/kg	0.042	0.5	10	70
13	copper	mg/kg	0.153	2	50	100
14	mercury	mg/kg	<0.0004	0.01	0.2	2
15	molybdenum	mg/kg	0.016	0.5	10	30
16	nickel	mg/kg	0.0123	0.4	10	40
17	lead	mg/kg	0.046	0.5	10	50
18	antimony	mg/kg	<0.002	0.06	0.7	5
19	selenium	mg/kg	0.005	0.1	0.5	7
20	zinc	mg/kg	0.13	4	50	200
21	chloride	mg/kg	40	800	15,000	25,000
22	fluoride	mg/kg	<1	10	150	500
23	sulphate	mg/kg	186	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	212	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	1169	4,000	60,000	100,000

Key

	User supplied data
	Not applicable

Classification of sample: TP01-0.50-13/12/2023



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

Sample details

Sample name:	LoW Code:
TP01-0.50-13/12/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
12.8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	pH PH				8.4 pH		8.4 pH	8.4 pH		
2	polychlorobiphenyls; PCB 602-039-00-4 215-648-1 1336-36-3				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
Total:								0.00001 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

WAC results for sample: TP01-0.50-13/12/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample **PASSES** the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.9	3	5	6
2	LOI (loss on ignition)	%	3.4	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.05	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1.7	100	-	-
7	pH	pH	8.4	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	4.9	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.018	0.5	2	25
10	barium	mg/kg	0.142	20	100	300
11	cadmium	mg/kg	<0.002	0.04	1	5
12	chromium	mg/kg	0.014	0.5	10	70
13	copper	mg/kg	0.053	2	50	100
14	mercury	mg/kg	<0.0004	0.01	0.2	2
15	molybdenum	mg/kg	0.519	0.5	10	30
16	nickel	mg/kg	0.0254	0.4	10	40
17	lead	mg/kg	0.007	0.5	10	50
18	antimony	mg/kg	<0.002	0.06	0.7	5
19	selenium	mg/kg	<0.0002	0.1	0.5	7
20	zinc	mg/kg	0.07	4	50	200
21	chloride	mg/kg	19	800	15,000	25,000
22	fluoride	mg/kg	<1	10	150	500
23	sulphate	mg/kg	28	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	365	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	951	4,000	60,000	100,000

Key

	User supplied data
	Not applicable

Classification of sample: TP01-1.30-13/12/2023



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

Sample details

Sample name:	LoW Code:	
TP01-1.30-13/12/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.30 m		
Moisture content:		
17.3%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 17.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	pH PH				8 pH		8 pH	8pH		
2	polychlorobiphenyls; PCB 602-039-00-4 215-648-1 1336-36-3				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
Total:								0.00001 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

WAC results for sample: TP01-1.30-13/12/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample **PASSES** the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1	3	5	6
2	LOI (loss on ignition)	%	3.3	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.05	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<1.7	100	-	-
7	pH	pH	8	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	4.9	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.003	0.5	2	25
10	barium	mg/kg	0.327	20	100	300
11	cadmium	mg/kg	<0.002	0.04	1	5
12	chromium	mg/kg	0.005	0.5	10	70
13	copper	mg/kg	0.037	2	50	100
14	mercury	mg/kg	<0.0004	0.01	0.2	2
15	molybdenum	mg/kg	0.047	0.5	10	30
16	nickel	mg/kg	0.0151	0.4	10	40
17	lead	mg/kg	<0.002	0.5	10	50
18	antimony	mg/kg	<0.002	0.06	0.7	5
19	selenium	mg/kg	0.003	0.1	0.5	7
20	zinc	mg/kg	0.05	4	50	200
21	chloride	mg/kg	42	800	15,000	25,000
22	fluoride	mg/kg	<1	10	150	500
23	sulphate	mg/kg	104	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	194	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	1139	4,000	60,000	100,000

Key

	User supplied data
	Not applicable

Classification of sample: HP103-0.05-15/11/2023



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

Sample details

Sample name:	LoW Code:
HP103-0.05-15/11/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.05 m	
Moisture content:	
6.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 6.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				390 mg/kg		363.87	mg/kg	0.0364 %	✓	
			TPH								
Total:									0.0364 %		

Key

	User supplied data
●	Determinand defined or amended by HazWasteOnline (see Appendix A)

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because **No free product**

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0364%)

Classification of sample: HP103-0.15-15/11/2023

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

Sample details

Sample name:	LoW Code:	
HP103-0.15-15/11/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.15 m		
Moisture content:		
16.6%		
(wet weight 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"

Force this Hazardous property to hazardous because No free product

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

ethylbenzene: (conc.: 2.5e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.394%)

mesitylene; 1,3,5-trimethylbenzene: (conc.: 8.34e-07%)

1,2,4-trimethylbenzene: (conc.: 1.25e-06%)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 1.92e-06%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.394%)

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.: 0.394%)

Determinands

Moisture content: 16.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 antimony { antimony trioxide }				4.3 mg/kg	1.197	4.293 mg/kg	0.000429 %	✓	
	051-005-00-X	215-175-0	1309-64-4							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
2		arsenic { arsenic trioxide }				26 mg/kg	1.32	28.63 mg/kg	0.00286 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
3		boron { diboron trioxide }				1 mg/kg	3.22	2.685 mg/kg	0.000269 %	✓		
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }				0.8 mg/kg	1.142	0.762 mg/kg	0.0000762 %	✓		
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				28 mg/kg	1.462	34.13 mg/kg	0.00341 %	✓		
			215-160-9	1308-38-9								
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD	
		024-017-00-8										
7		copper { dicopper oxide ; copper (I) oxide }				56 mg/kg	1.126	52.583 mg/kg	0.00526 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }			1	389 mg/kg	1.56	506.045 mg/kg	0.0324 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
9		mercury { mercury dichloride }				26.9 mg/kg	1.353	30.365 mg/kg	0.00304 %	✓		
		080-010-00-X	231-299-8	7487-94-7								
10		nickel { nickel chromate }				25 mg/kg	2.976	62.055 mg/kg	0.00621 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
11		selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
12		zinc { zinc sulphate }				667 mg/kg	2.469	1373.615 mg/kg	0.137 %	✓		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
13		TPH (C6 to C40) petroleum group				4726 mg/kg		3941.484 mg/kg	0.394 %	✓		
				TPH								
14		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
15		benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
16		toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
17		ethylbenzene				0.003 mg/kg		0.0025 mg/kg	0.00000025 %	✓		
		601-023-00-4	202-849-4	100-41-4								
18		cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
		006-007-00-5										
19		pH				8.2 pH		8.2 pH	8.2 pH			
				PH								
20		naphthalene				0.28 mg/kg		0.234 mg/kg	0.0000234 %	✓		
		601-052-00-2	202-049-5	91-20-3								
21		acenaphthylene				0.44 mg/kg		0.367 mg/kg	0.0000367 %	✓		
			205-917-1	208-96-8								
22		acenaphthene				0.25 mg/kg		0.209 mg/kg	0.0000209 %	✓		
			201-469-6	83-32-9								
23		fluorene				0.35 mg/kg		0.292 mg/kg	0.0000292 %	✓		
			201-695-5	86-73-7								
24		phenanthrene				3.66 mg/kg		3.052 mg/kg	0.000305 %	✓		
			201-581-5	85-01-8								
25		anthracene				0.6 mg/kg		0.5 mg/kg	0.00005 %	✓		
			204-371-1	120-12-7								
26		fluoranthene				10.2 mg/kg		8.507 mg/kg	0.000851 %	✓		
			205-912-4	206-44-0								
27		pyrene				10.6 mg/kg		8.84 mg/kg	0.000884 %	✓		
			204-927-3	129-00-0								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
28	benzo[a]anthracene				6.45 mg/kg		5.379 mg/kg	0.000538 %	✓	
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				6.07 mg/kg		5.062 mg/kg	0.000506 %	✓	
	601-048-00-0	205-923-4	218-01-9							
30	benzo[a]pyrene; benzo[def]chrysene				8.8 mg/kg		7.339 mg/kg	0.000734 %	✓	
	601-032-00-3	200-028-5	50-32-8							
31	indeno[123-cd]pyrene				4.78 mg/kg		3.987 mg/kg	0.000399 %	✓	
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				0.85 mg/kg		0.709 mg/kg	0.0000709 %	✓	
	601-041-00-2	200-181-8	53-70-3							
33	benzo[ghi]perylene				3.99 mg/kg		3.328 mg/kg	0.000333 %	✓	
		205-883-8	191-24-2							
34	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
35	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
36	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
37	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
38	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
39	monohydric phenols				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
			P1186							
40	barium { barium sulphide }				228 mg/kg	1.233	234.551 mg/kg	0.0235 %	✓	
	016-002-00-X	244-214-4	21109-95-5							
41	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg	<0.0003 %		<LOD
	615-018-00-X	203-985-7	112-56-1							
42	dichlorodifluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-893-9	75-71-8							
43	chloromethane; methyl chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
44	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
45	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
46	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
47	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
48	2,2-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		209-832-0	594-20-7							
49	chloroform; trichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
50	bromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-826-3	74-97-5							
51	benzo[bk]fluoranthene				13.95 mg/kg		11.634 mg/kg	0.00116 %	✓	
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
52	1,1,1-trichloroethane; methyl chloroform				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
53	1,1-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
54	1,2-dichloropropane; propylene dichloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
55	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
56	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
57	2-methoxy-2-methylbutane; tert-amyl methyl ether 603-213-00-2	213-611-4	994-05-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
58	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
59	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
60	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
61	1,3-dichloropropane 205-531-3	142-28-9			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
62	dibromochloromethane 204-704-0	124-48-1			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
63	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
64	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
65	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
66	styrene 601-026-00-0	202-851-5	100-42-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
67	bromoform; tribromomethane 602-007-00-X	200-854-6	75-25-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
68	cumene 601-024-00-X	202-704-5	98-82-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
69	1,1,2,2-tetrachloroethane 602-015-00-3	201-197-8	79-34-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
70	1,2,3-trichloropropane 602-062-00-X	202-486-1	96-18-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
71	bromobenzene 602-060-00-9	203-623-8	108-86-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
72	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		0.01 mg/kg		0.0083 mg/kg	0.000000834 %	✓	
73	tert-butylbenzene 202-632-4	98-06-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
74	1,2,4-trimethylbenzene 601-043-00-3	202-436-9	95-63-6		0.015 mg/kg		0.0125 mg/kg	0.00000125 %	✓	
75	sec-butylbenzene 205-227-0	135-98-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
76	4-isopropyltoluene 202-796-7	99-87-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
77	1,3-dichlorobenzene 602-067-00-7	208-792-1	541-73-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
78	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2	203-400-5	106-46-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
79	n-butylbenzene 203-209-7	104-51-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
80	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7	202-425-9	95-50-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
81	1,2-dibromo-3-chloropropane 602-021-00-6	202-479-3	96-12-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
82	hexachlorobutadiene 201-765-5	87-68-3			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
83	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]		0.023 mg/kg		0.0192 mg/kg	0.00000192 %	✓	

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number									
84		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD		
	602-026-00-3	208-750-2 [1]	540-59-0 [1]										
		205-859-7 [2]	156-59-2 [2]										
		205-860-2 [3]	156-60-5 [3]										
85		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD		
	602-040-00-X	202-424-3 [1]	95-49-8 [1]										
		203-580-5 [2]	108-41-8 [2]										
		203-397-0 [3]	106-43-4 [3]										
		246-698-2 [4]	25168-05-2 [4]										
Total:												0.617 %	

Key

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

WAC results for sample: HP103-0.15-15/11/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

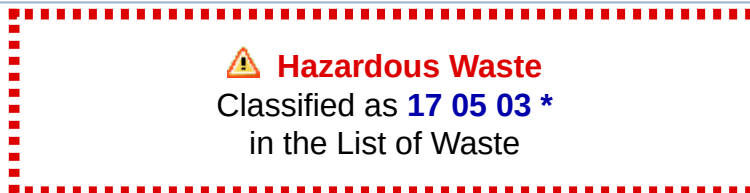
WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	5.1	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	8.2	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value
	SNRHW WAC criteria fail

Classification of sample: HP103-0.25-15/11/2023



Sample details

Sample name:	LoW Code:	
HP103-0.25-15/11/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.25 m		
Moisture content:		
13.2%		
(wet weight 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"

Force this Hazardous property to hazardous because No free product

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

ethylbenzene: (conc.: 5.21e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.603%)

mesitylene; 1,3,5-trimethylbenzene: (conc.: 2.78e-06%)

1,2,4-trimethylbenzene: (conc.: 4.95e-06%)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 5.56e-06%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.603%)

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.: 0.603%)

Determinands

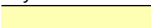
Moisture content: 13.2% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				6942 mg/kg		6025.656 mg/kg		0.603 %	✓	
			TPH								

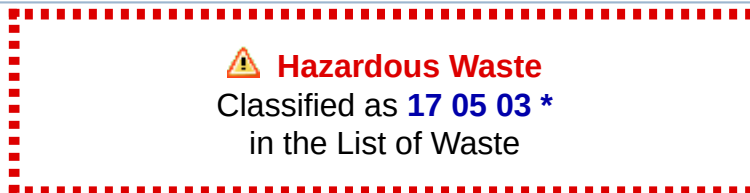
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				0.006 mg/kg		0.0052 mg/kg	0.000000521 %	✓	
	601-023-00-4	202-849-4	100-41-4							
6	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
7	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
8	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
9	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
10	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
11	dichlorodifluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-893-9	75-71-8							
12	chloromethane; methyl chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
13	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
14	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
15	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
16	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
17	2,2-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		209-832-0	594-20-7							
18	chloroform; trichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
19	bromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-826-3	74-97-5							
20	1,1,1-trichloroethane; methyl chloroform				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
21	1,1-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
22	1,2-dichloropropane; propylene dichloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
23	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
24	dibromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
25	2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-213-00-2	213-611-4	994-05-8							
26	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
27	trans-1,3-dichloropropene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		431-460-4	10061-02-6							
28	1,1,2-trichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
29	1,3-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-531-3	142-28-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
30	dibromochloromethane 204-704-0124-48-1				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
31	1,2-dibromoethane 602-010-00-6203-444-5106-93-4				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	chlorobenzene 602-033-00-1203-628-5108-90-7				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	1,1,1,2-tetrachloroethane 211-135-1630-20-6				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	styrene 601-026-00-0202-851-5100-42-5				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	bromoform; tribromomethane 602-007-00-X200-854-675-25-2				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	cumene 601-024-00-X202-704-598-82-8				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
37	1,1,2,2-tetrachloroethane 602-015-00-3201-197-879-34-5				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
38	1,2,3-trichloropropane 602-062-00-X202-486-196-18-4				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
39	bromobenzene 602-060-00-9203-623-8108-86-1				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
40	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5203-604-4108-67-8				0.032 mg/kg		0.0278 mg/kg	0.00000278 %	✓	
41	tert-butylbenzene 202-632-498-06-6				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
42	1,2,4-trimethylbenzene 601-043-00-3202-436-995-63-6				0.057 mg/kg		0.0495 mg/kg	0.00000495 %	✓	
43	sec-butylbenzene 205-227-0135-98-8				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
44	4-isopropyltoluene 202-796-799-87-6				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
45	1,3-dichlorobenzene 602-067-00-7208-792-1541-73-1				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
46	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2203-400-5106-46-7				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
47	n-butylbenzene 203-209-7104-51-8				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
48	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7202-425-995-50-1				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
49	1,2-dibromo-3-chloropropane 602-021-00-6202-479-396-12-8				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
50	hexachlorobutadiene 201-765-587-68-3				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
51	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 601-022-00-9202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				0.064 mg/kg		0.0556 mg/kg	0.00000556 %	✓	
52	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3] 602-026-00-3208-750-2 [1] 540-59-0 [1] 205-859-7 [2] 156-59-2 [2] 205-860-2 [3] 156-60-5 [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
53	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4] 602-040-00-X202-424-3 [1] 95-49-8 [1] 203-580-5 [2] 108-41-8 [2] 203-397-0 [3] 106-43-4 [3] 246-698-2 [4] 25168-05-2 [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
Total:								0.603 %		

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)
<LOD	Below limit of detection

Classification of sample: HP103-0.75-15/11/2023



Sample details

Sample name:	LoW Code:	
HP103-0.75-15/11/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.75 m		
Moisture content:		
10.9%		
(wet weight 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"

Force this Hazardous property to hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.269%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.269%)

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.: 0.269%)

Determinands

Moisture content: 10.9% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				3021 mg/kg		2691.711 mg/kg		0.269 %	✓	
			TPH								
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
5	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
6	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5	107-06-2, 75-34-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
8	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
9	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
10	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
11	dichlorodifluoromethane 200-893-9	75-71-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
12	chloromethane; methyl chloride 602-001-00-7	200-817-4	74-87-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
13	chloroethane 602-009-00-0	200-830-5	75-00-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
14	bromomethane; methylbromide 602-002-00-2	200-813-2	74-83-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
15	trichlorofluoromethane 200-892-3	75-69-4			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	1,1-dichloroethylene; vinylidene chloride 602-025-00-8	200-864-0	75-35-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
17	2,2-dichloropropane 209-832-0	594-20-7			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	bromochloromethane 200-826-3	74-97-5			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
20	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
23	bromodichloromethane 200-856-7	75-27-4			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
24	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
25	2-methoxy-2-methylbutane; tert-amyl methyl ether 603-213-00-2	213-611-4	994-05-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
26	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
27	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
28	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
29	1,3-dichloropropane 205-531-3	142-28-9			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
30	dibromochloromethane 204-704-0	124-48-1			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
31	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
34	styrene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
35	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
36	cumene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
37	1,1,2,2-tetrachloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
38	1,2,3-trichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
39	bromobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
40	mesitylene; 1,3,5-trimethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
41	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-632-4	98-06-6							
42	1,2,4-trimethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
43	sec-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-227-0	135-98-8							
44	4-isopropyltoluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-796-7	99-87-6							
45	1,3-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
46	1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
47	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		203-209-7	104-51-8							
48	1,2-dichlorobenzene; o-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
49	1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
50	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		201-765-5	87-68-3							
51	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<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]							
52	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
53	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
Total:								0.269 %		

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)
<LOD	Below limit of detection

Classification of sample: HP103-1.20-15/11/2023

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

Sample details

Sample name:	LoW Code:
HP103-1.20-15/11/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.20 m	
Moisture content:	
9.2%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.2% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				549 mg/kg		498.492 mg/kg	0.0498 %	✓	
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
7	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
8	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
9	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
10	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
11	dichlorodifluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-893-9	75-71-8							
12	chloromethane; methyl chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
13	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
14	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
15	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
16	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	2,2-dichloropropane	209-832-0	594-20-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	bromochloromethane	200-826-3	74-97-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
20	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
23	bromodichloromethane	200-856-7	75-27-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
24	dibromomethane	602-003-00-8	200-824-2	74-95-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
25	2-methoxy-2-methylbutane; tert-amyl methyl ether	603-213-00-2	213-611-4	994-05-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
26	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
27	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
28	1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
29	1,3-dichloropropane	205-531-3	142-28-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
30	dibromochloromethane	204-704-0	124-48-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
31	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	styrene	601-026-00-0	202-851-5	100-42-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	cumene	601-024-00-X	202-704-5	98-82-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
37	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
38	1,2,3-trichloropropene	602-062-00-X	202-486-1	96-18-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
39	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
40	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
41	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
42	1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
43	sec-butylbenzene	205-227-0	135-98-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
44	4-isopropyltoluene	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
45	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
46		1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
47	•	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			203-209-7	104-51-8							
48		1,2-dichlorobenzene; o-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
49		1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8							
50	•	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			201-765-5	87-68-3							
51		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<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]							
52		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
53		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
Total:									0.0499 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product

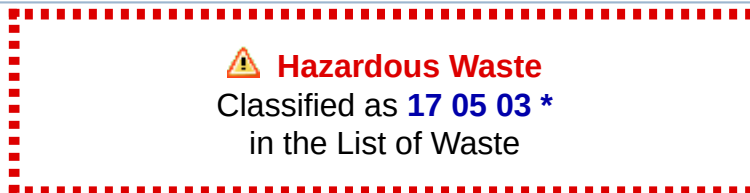
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0498%)

Classification of sample: HP102-0.05-15/11/2023



Sample details

Sample name:	LoW Code:	
HP102-0.05-15/11/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.05 m		
Moisture content:		
6.2%		
(wet weight 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"

Force this Hazardous property to hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.209%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.209%)

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.: 0.209%)

Determinands

Moisture content: 6.2% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				2228 mg/kg		2089.864 mg/kg		0.209 %	✓	
			TPH								
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
5	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
6	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5	107-06-2, 75-34-3			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
8	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
9	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
10	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
11	dichlorodifluoromethane 200-893-9	75-71-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
12	chloromethane; methyl chloride 602-001-00-7	200-817-4	74-87-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
13	chloroethane 602-009-00-0	200-830-5	75-00-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
14	bromomethane; methylbromide 602-002-00-2	200-813-2	74-83-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
15	trichlorofluoromethane 200-892-3	75-69-4			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
16	1,1-dichloroethylene; vinylidene chloride 602-025-00-8	200-864-0	75-35-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
17	2,2-dichloropropane 209-832-0	594-20-7			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	bromochloromethane 200-826-3	74-97-5			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
20	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
23	bromodichloromethane 200-856-7	75-27-4			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
24	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
25	2-methoxy-2-methylbutane; tert-amyl methyl ether 603-213-00-2	213-611-4	994-05-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
26	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
27	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
28	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
29	1,3-dichloropropane 205-531-3	142-28-9			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
30	dibromochloromethane 204-704-0	124-48-1			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
31	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
34	styrene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
35	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
36	cumene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
37	1,1,2,2-tetrachloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
38	1,2,3-trichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
39	bromobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
40	mesitylene; 1,3,5-trimethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
41	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-632-4	98-06-6							
42	1,2,4-trimethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
43	sec-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-227-0	135-98-8							
44	4-isopropyltoluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-796-7	99-87-6							
45	1,3-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
46	1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
47	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		203-209-7	104-51-8							
48	1,2-dichlorobenzene; o-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
49	1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
50	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		201-765-5	87-68-3							
51	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<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]							
52	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
53	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
Total:								0.209 %		

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)
<LOD	Below limit of detection

Classification of sample: HP102-0.25-15/11/2023

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

Sample details

Sample name:	LoW Code:
HP102-0.25-15/11/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				11 mg/kg	1.32	12.824 mg/kg	0.00128 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12 mg/kg	1.462	15.487 mg/kg	0.00155 %		✓	
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	13.918 mg/kg	0.00139 %		✓	
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	15 mg/kg	1.56	20.66 mg/kg	0.00132 %		✓	
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				16 mg/kg	2.976	42.049 mg/kg	0.0042 %		✓	
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
12	zinc { zinc sulphate }				50 mg/kg	2.469	109.019 mg/kg	0.0109 %		✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
13	TPH (C6 to C40) petroleum group				441 mg/kg		389.403 mg/kg	0.0389 %		✓	
			TPH								
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
15	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
19	pH				10.1 pH		10.1 pH	10.1 pH			
			PH								
20	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-581-5	85-01-8								
25	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-912-4	206-44-0								
27	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
30	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
31	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
32	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
33	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-883-8	191-24-2								
34	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
35	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-028-00-4	204-825-9	127-18-4								
36	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
37	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-027-00-9	201-167-4	79-01-6								
38	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	602-023-00-7	200-831-0	75-01-4								
39	monohydric phenols				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
			P1186								
40	barium { barium sulphide }				28 mg/kg	1.233	30.497 mg/kg	0.00305 %	✓		
	016-002-00-X	244-214-4	21109-95-5								
41	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg	<0.0003 %			<LOD
	615-018-00-X	203-985-7	112-56-1								
42	dichlorodifluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
		200-893-9	75-71-8								

#	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							
43	chloromethane; methyl chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
44	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
45	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
46	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
47	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
48	2,2-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		209-832-0	594-20-7							
49	chloroform; trichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
50	bromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-826-3	74-97-5							
51	benzo[bk]fluoranthene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
52	1,1,1-trichloroethane; methyl chloroform				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
53	1,1-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
54	1,2-dichloropropane; propylene dichloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
55	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
56	dibromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
57	2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-213-00-2	213-611-4	994-05-8							
58	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
59	trans-1,3-dichloropropene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		431-460-4	10061-02-6							
60	1,1,2-trichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
61	1,3-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-531-3	142-28-9							
62	dibromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		204-704-0	124-48-1							
63	1,2-dibromoethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
64	chlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
65	1,1,1,2-tetrachloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		211-135-1	630-20-6							
66	styrene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
67	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
68	cumene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
69	1,1,2,2-tetrachloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
70	1,2,3-trichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
71	bromobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-060-00-9	203-623-8	108-86-1							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
72		mesitylene; 1,3,5-trimethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		601-025-00-5	203-604-4	108-67-8							
73	•	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			202-632-4	98-06-6							
74		1,2,4-trimethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		601-043-00-3	202-436-9	95-63-6							
75	•	sec-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			205-227-0	135-98-8							
76	•	4-isopropyltoluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			202-796-7	99-87-6							
77		1,3-dichlorbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-067-00-7	208-792-1	541-73-1							
78		1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
79	•	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			203-209-7	104-51-8							
80		1,2-dichlorobenzene; o-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
81		1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8							
82	•	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			201-765-5	87-68-3							
83		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1]	95-47-6 [1]							
			203-396-5 [2]	106-42-3 [2]							
			203-576-3 [3]	108-38-3 [3]							
			215-535-7 [4]	1330-20-7 [4]							
84		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-026-00-3	208-750-2 [1]	540-59-0 [1]							
			205-859-7 [2]	156-59-2 [2]							
			205-860-2 [3]	156-60-5 [3]							
85		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-040-00-X	202-424-3 [1]	95-49-8 [1]							
			203-580-5 [2]	108-41-8 [2]							
			203-397-0 [3]	106-43-4 [3]							
			246-698-2 [4]	25168-05-2 [4]							
Total:									0.0651 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0389%)

WAC results for sample: HP102-0.25-15/11/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.8	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	10.1	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: HP102-1.00-15/11/2023

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

Sample details

Sample name:	LoW Code:	
HP102-1.00-15/11/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.00 m		
Moisture content:		
12.3%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 12.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
7	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
8	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
9	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
10	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
11	dichlorodifluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-893-9	75-71-8							
12	chloromethane; methyl chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
13	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
14	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
15	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
16	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	2,2-dichloropropane	209-832-0	594-20-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	bromochloromethane	200-826-3	74-97-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
20	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
23	bromodichloromethane	200-856-7	75-27-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
24	dibromomethane	602-003-00-8	200-824-2	74-95-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
25	2-methoxy-2-methylbutane; tert-amyl methyl ether	603-213-00-2	213-611-4	994-05-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
26	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
27	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
28	1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
29	1,3-dichloropropane	205-531-3	142-28-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
30	dibromochloromethane	204-704-0	124-48-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
31	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	styrene	601-026-00-0	202-851-5	100-42-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	cumene	601-024-00-X	202-704-5	98-82-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
37	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
38	1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
39	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
40	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
41	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
42	1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
43	sec-butylbenzene	205-227-0	135-98-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
44	4-isopropyltoluene	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
45	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
46		1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
47	■	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			203-209-7	104-51-8							
48		1,2-dichlorobenzene; o-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
49		1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8							
50	■	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			201-765-5	87-68-3							
51		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1]	95-47-6 [1]							
			203-396-5 [2]	106-42-3 [2]							
			203-576-3 [3]	108-38-3 [3]							
			215-535-7 [4]	1330-20-7 [4]							
52		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-026-00-3	208-750-2 [1]	540-59-0 [1]							
			205-859-7 [2]	156-59-2 [2]							
			205-860-2 [3]	156-60-5 [3]							
53		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-040-00-X	202-424-3 [1]	95-49-8 [1]							
			203-580-5 [2]	108-41-8 [2]							
			203-397-0 [3]	106-43-4 [3]							
			246-698-2 [4]	25168-05-2 [4]							
Total:									0.00063 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Classification of sample: HP101-0.025-15/11/2023

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

Sample details

Sample name:	LoW Code:
HP101-0.025-15/11/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.025 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
1.5%	
(wet weight 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"

Force this Hazardous property to hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.464%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.464%)

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.: 0.464%)

Determinands

Moisture content: 1.5% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	TPH (C6 to C40) petroleum group				4712 mg/kg		4641.32	mg/kg	0.464 %	✓	
			TPH								
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
3	benzene				<0.002 mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
4	toluene				<0.005 mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
5	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
6	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
7	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
8	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
9	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
10	phenanthrene 201-581-5	85-01-8			0.23 mg/kg		0.227 mg/kg	0.0000227 %	✓	
11	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
12	fluoranthene 205-912-4	206-44-0			0.31 mg/kg		0.305 mg/kg	0.0000305 %	✓	
13	pyrene 204-927-3	129-00-0			0.44 mg/kg		0.433 mg/kg	0.0000433 %	✓	
14	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.14 mg/kg		0.138 mg/kg	0.0000138 %	✓	
15	chrysene 601-048-00-0	205-923-4	218-01-9		0.19 mg/kg		0.187 mg/kg	0.0000187 %	✓	
16	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	benzo[ghi]perylene 205-883-8	191-24-2			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	benzo[bk]fluoranthene [1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9			<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
21	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]		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
Total:								0.464 %		

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)
<LOD	Below limit of detection

Classification of sample: HP101-0.10-15/11/2023

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

Sample details

Sample name:	LoW Code:	
HP101-0.10-15/11/2023	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.10 m		
Moisture content:		
11.9%		
(wet weight 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"

Force this Hazardous property to hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.179%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.179%)

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.: 0.179%)

Determinands

Moisture content: 11.9% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 antimony { antimony trioxide }				1.4 mg/kg	1.197	1.477	mg/kg	0.000148 %	✓	
	051-005-00-X	215-175-0	1309-64-4								
2	 arsenic { arsenic trioxide }				15 mg/kg	1.32	17.448	mg/kg	0.00174 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
3	 boron { diboron trioxide }				1.8 mg/kg	3.22	5.106	mg/kg	0.000511 %	✓	
	005-008-00-8	215-125-8	1303-86-2								
4	 cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.302	mg/kg	0.0000302 %	✓	
	048-002-00-0	215-146-2	1306-19-0								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		15 mg/kg	1.462	19.314	mg/kg	0.00193 %	✓	
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<2 mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	62 mg/kg	1.126	61.498	mg/kg	0.00615 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	40 mg/kg	1.56	54.968	mg/kg	0.00352 %	✓	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<1 mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	17 mg/kg	2.976	44.576	mg/kg	0.00446 %	✓	
11	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<2 mg/kg	2.554	<5.108	mg/kg	<0.000511 %		<LOD
12	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	91 mg/kg	2.469	197.966	mg/kg	0.0198 %	✓	
13	TPH (C6 to C40) petroleum group		TPH		2037 mg/kg		1794.597	mg/kg	0.179 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.005 mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
15	benzene	601-020-00-8	200-753-7	71-43-2	<0.002 mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
16	toluene	601-021-00-3	203-625-9	108-88-3	<0.005 mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
17	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<0.002 mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			<1 mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19	pH		PH		7.9 pH		7.9	pH	7.9 pH		
20	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21	acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22	acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23	fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24	phenanthrene		201-581-5	85-01-8	0.19 mg/kg		0.167	mg/kg	0.0000167 %	✓	
25	anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26	fluoranthene		205-912-4	206-44-0	0.31 mg/kg		0.273	mg/kg	0.0000273 %	✓	
27	pyrene		204-927-3	129-00-0	0.35 mg/kg		0.308	mg/kg	0.0000308 %	✓	
28	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.17 mg/kg		0.15	mg/kg	0.000015 %	✓	
29	chrysene	601-048-00-0	205-923-4	218-01-9	0.19 mg/kg		0.167	mg/kg	0.0000167 %	✓	
30	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD

#	Determinand			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	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
35	tetrachloroethylene	602-028-00-4	204-825-9	127-18-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
36	carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
37	trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
38	vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
39	monohydric phenols		P1186		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
40	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5	46 mg/kg	1.233	49.989 mg/kg	0.005 %	✓	
41	2-(2-butoxyethoxy)ethyl thiocyanate	615-018-00-X	203-985-7	112-56-1	<3 mg/kg		<3 mg/kg	<0.0003 %		<LOD
42	dichlorodifluoromethane	200-893-9	75-71-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
43	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
44	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
45	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
46	trichlorofluoromethane	200-892-3	75-69-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
47	1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
48	2,2-dichloropropane	209-832-0	594-20-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
49	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
50	bromochloromethane	200-826-3	74-97-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
51	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
52	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
53	1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
54	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
55	bromodichloromethane	200-856-7	75-27-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
56	dibromomethane	602-003-00-8	200-824-2	74-95-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
57	2-methoxy-2-methylbutane; tert-amyl methyl ether	603-213-00-2	213-611-4	994-05-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
58	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
59	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
60	1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
61	1,3-dichloropropane	205-531-3	142-28-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
62	dibromochloromethane	204-704-0	124-48-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
63	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
64	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
65	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
66	styrene	601-026-00-0	202-851-5	100-42-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
67	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
68	cumene	601-024-00-X	202-704-5	98-82-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
69	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
70	1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
71	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
72	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
73	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
74	1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
75	sec-butylbenzene	205-227-0	135-98-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
76	4-isopropyltoluene	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
77	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
78	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
79	n-butylbenzene	203-209-7	104-51-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
80	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
81	1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
82	hexachlorobutadiene	201-765-5	87-68-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
83	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]	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
84	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
85		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]			<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		602-040-00-X	202-424-3 [1]	95-49-8 [1]							
			203-580-5 [2]	108-41-8 [2]							
			203-397-0 [3]	106-43-4 [3]							
			246-698-2 [4]	25168-05-2 [4]							
Total: 0.225 %											

Key

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

WAC results for sample: HP101-0.10-15/11/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1.1	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	7.9	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: HP101-0.50-15/11/2023

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

Sample details

Sample name:	LoW Code:
HP101-0.50-15/11/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
12.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				<42 mg/kg		<42 mg/kg	<0.0042 %		<LOD
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
7	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
8	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
9	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
10	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
11	dichlorodifluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-893-9	75-71-8							
12	chloromethane; methyl chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
13	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
14	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
15	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
16	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	2,2-dichloropropane	209-832-0	594-20-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	bromochloromethane	200-826-3	74-97-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
20	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
23	bromodichloromethane	200-856-7	75-27-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
24	dibromomethane	602-003-00-8	200-824-2	74-95-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
25	2-methoxy-2-methylbutane; tert-amyl methyl ether	603-213-00-2	213-611-4	994-05-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
26	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
27	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
28	1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
29	1,3-dichloropropane	205-531-3	142-28-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
30	dibromochloromethane	204-704-0	124-48-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
31	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	styrene	601-026-00-0	202-851-5	100-42-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	cumene	601-024-00-X	202-704-5	98-82-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
37	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
38	1,2,3-trichloropropene	602-062-00-X	202-486-1	96-18-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
39	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
40	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
41	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
42	1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
43	sec-butylbenzene	205-227-0	135-98-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
44	4-isopropyltoluene	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
45	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
46		1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
47	●	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			203-209-7	104-51-8							
48		1,2-dichlorobenzene; o-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
49		1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8							
50	●	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			201-765-5	87-68-3							
51		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1]	95-47-6 [1]							
			203-396-5 [2]	106-42-3 [2]							
			203-576-3 [3]	108-38-3 [3]							
			215-535-7 [4]	1330-20-7 [4]							
52		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-026-00-3	208-750-2 [1]	540-59-0 [1]							
			205-859-7 [2]	156-59-2 [2]							
			205-860-2 [3]	156-60-5 [3]							
53		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-040-00-X	202-424-3 [1]	95-49-8 [1]							
			203-580-5 [2]	108-41-8 [2]							
			203-397-0 [3]	106-43-4 [3]							
			246-698-2 [4]	25168-05-2 [4]							
Total:									0.00423 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Classification of sample: HP101-1.00-15/11/2023

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

Sample details

Sample name:	LoW Code:
HP101-1.00-15/11/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				66 mg/kg		58.938 mg/kg	0.00589 %	✓	
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
7	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
8	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
9	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
10	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
11	dichlorodifluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-893-9	75-71-8							
12	chloromethane; methyl chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
13	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
14	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
15	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
16	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
17	2,2-dichloropropane	209-832-0	594-20-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
18	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
19	bromochloromethane	200-826-3	74-97-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
20	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
23	bromodichloromethane	200-856-7	75-27-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
24	dibromomethane	602-003-00-8	200-824-2	74-95-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
25	2-methoxy-2-methylbutane; tert-amyl methyl ether	603-213-00-2	213-611-4	994-05-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
26	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
27	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
28	1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
29	1,3-dichloropropane	205-531-3	142-28-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
30	dibromochloromethane	204-704-0	124-48-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
31	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	styrene	601-026-00-0	202-851-5	100-42-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
35	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
36	cumene	601-024-00-X	202-704-5	98-82-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
37	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
38	1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
39	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
40	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
41	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
42	1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
43	sec-butylbenzene	205-227-0	135-98-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
44	4-isopropyltoluene	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
45	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
46		1,4-dichlorobenzene; p-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
47	■	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			203-209-7	104-51-8							
48		1,2-dichlorobenzene; o-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
49		1,2-dibromo-3-chloropropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8							
50	■	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
			201-765-5	87-68-3							
51		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1]	95-47-6 [1]							
			203-396-5 [2]	106-42-3 [2]							
			203-576-3 [3]	108-38-3 [3]							
			215-535-7 [4]	1330-20-7 [4]							
52		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-026-00-3	208-750-2 [1]	540-59-0 [1]							
			205-859-7 [2]	156-59-2 [2]							
			205-860-2 [3]	156-60-5 [3]							
53		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		602-040-00-X	202-424-3 [1]	95-49-8 [1]							
			203-580-5 [2]	108-41-8 [2]							
			203-397-0 [3]	106-43-4 [3]							
			246-698-2 [4]	25168-05-2 [4]							
Total:									0.00592 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00589%)

Classification of sample: Stockpile-0.00-15/11/2023

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

Sample details

Sample name:	LoW Code:
Stockpile-0.00-15/11/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.00 m	
Moisture content:	
3.3%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 3.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<1 mg/kg	1.197	<1.197 mg/kg	<0.00012 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				<2 mg/kg	1.32	<2.641 mg/kg	<0.000264 %			<LOD
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				4 mg/kg	1.462	5.653 mg/kg	0.000565 %	✓		
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				8 mg/kg	1.126	8.71 mg/kg	0.000871 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	6 mg/kg	1.56	9.05 mg/kg	0.00058 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				<3 mg/kg	2.976	<8.929 mg/kg	<0.000893 %			<LOD
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
12	zinc { zinc sulphate }				28 mg/kg	2.469	66.859 mg/kg	0.00669 %	✓		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
13	TPH (C6 to C40) petroleum group				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
			TPH								
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	• pH		PH		10.4 pH		10.4	pH	10.4 pH		
16	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	• acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	• acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	• fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	• phenanthrene		201-581-5	85-01-8	0.12 mg/kg		0.116	mg/kg	0.0000116 %	✓	
21	• anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22	• fluoranthene		205-912-4	206-44-0	0.18 mg/kg		0.174	mg/kg	0.0000174 %	✓	
23	• pyrene		204-927-3	129-00-0	0.16 mg/kg		0.155	mg/kg	0.0000155 %	✓	
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	• indeno[123-cd]pyrene		205-893-2	193-39-5	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29	• benzo[ghi]perylene		205-883-8	191-24-2	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30	• monohydric phenols		P1186		<2 mg/kg		<2	mg/kg	<0.0002 %		<LOD
31	barium { • barium sulphide }	016-002-00-X	244-214-4	21109-95-5	12 mg/kg	1.233	14.313	mg/kg	0.00143 %	✓	
32	2-(2-butoxyethoxy)ethyl thiocyanate	615-018-00-X	203-985-7	112-56-1	<3 mg/kg		<3	mg/kg	<0.0003 %		<LOD
33	• benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
Total:									0.0143 %		

Key

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

WAC results for sample: Stockpile-0.00-15/11/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.1	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	10.4	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: WS01-0.20-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS01-0.20-18/07/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.20 m	
Moisture content:	
11.7%	
(wet weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc sulphate: (compound conc.: 0.262%)

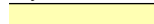
Determinands

Moisture content: 11.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 antimony { antimony trioxide }				2.2 mg/kg	1.197	2.325 mg/kg	0.000233 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	 arsenic { arsenic trioxide }				22 mg/kg	1.32	25.649 mg/kg	0.00256 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	 boron { diboron trioxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	 cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.605 mg/kg	0.0000605 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27 mg/kg	1.462	34.845 mg/kg	0.00348 %	✓	
		215-160-9	1308-38-9							
6	 chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD
	024-017-00-8									
7	 copper { dicopper oxide; copper (I) oxide }				17 mg/kg	1.126	16.901 mg/kg	0.00169 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	 lead { lead chromate }			1	27 mg/kg	1.56	37.188 mg/kg	0.00238 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	 mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	 nickel { nickel chromate }				28 mg/kg	2.976	73.585 mg/kg	0.00736 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	 selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	 zinc { zinc sulphate }				1200 mg/kg	2.469	2616.466 mg/kg	0.262 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [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							
13	TPH (C6 to C40) petroleum group				65 mg/kg		57.395 mg/kg	0.00574 %	✓	
			TPH							
14	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
18	pH				7.9 pH		7.9 pH	7.9 pH		
			PH							
19	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
24	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				0.19 mg/kg		0.168 mg/kg	0.0000168 %	✓	
		205-912-4	206-44-0							
26	pyrene				0.18 mg/kg		0.159 mg/kg	0.0000159 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				0.11 mg/kg		0.0971 mg/kg	0.00000971 %	✓	
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				0.11 mg/kg		0.0971 mg/kg	0.00000971 %	✓	
	601-048-00-0	205-923-4	218-01-9							
29	benzo[a]pyrene; benzo[def]chrysene				0.14 mg/kg		0.124 mg/kg	0.0000124 %	✓	
	601-032-00-3	200-028-5	50-32-8							
30	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
31	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
32	benzo[ghi]perylene				0.12 mg/kg		0.106 mg/kg	0.0000106 %	✓	
		205-883-8	191-24-2							
33	monohydric phenols				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
			P1186							
34	barium { barium sulphide }				60 mg/kg	1.233	65.351 mg/kg	0.00654 %	✓	
	016-002-00-X	244-214-4	21109-95-5							
35	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg	<0.0003 %		<LOD
	615-018-00-X	203-985-7	112-56-1							
36	benzo[bk]fluoranthene				0.16 mg/kg		0.141 mg/kg	0.0000141 %	✓	
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
37	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<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]							
Total:								0.294 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because **No free product**

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00574%)

WAC results for sample: WS01-0.20-18/07/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.7	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	7.9	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: WS01-0.70-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS01-0.70-18/07/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.70 m	
Moisture content:	
11.6%	
(wet weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc sulphate: (compound conc.: 0.816%)

Determinands

Moisture content: 11.6% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				2.1 mg/kg	1.197	2.222 mg/kg	0.000222 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				16 mg/kg	1.32	18.675 mg/kg	0.00187 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				1.9 mg/kg	1.142	1.919 mg/kg	0.000192 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	23.256 mg/kg	0.00233 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	13.934 mg/kg	0.00139 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	24 mg/kg	1.56	33.093 mg/kg	0.00212 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				18 mg/kg	2.976	47.358 mg/kg	0.00474 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc sulphate }				3740 mg/kg	2.469	8163.889 mg/kg	0.816 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [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								
13	TPH (C6 to C40) petroleum group				64 mg/kg		56.576 mg/kg		0.00566 %	✓	
			TPH								
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg		<0.000188 %		<LOD
	006-007-00-5										
15	pH				7.9 pH		7.9 pH		7.9 pH		
			PH								
16	naphthalene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
17	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		205-917-1	208-96-8								
18	acenaphthene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-469-6	83-32-9								
19	fluorene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-695-5	86-73-7								
20	phenanthrene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-581-5	85-01-8								
21	anthracene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		204-371-1	120-12-7								
22	fluoranthene				0.25 mg/kg		0.221 mg/kg		0.0000221 %	✓	
		205-912-4	206-44-0								
23	pyrene				0.22 mg/kg		0.194 mg/kg		0.0000194 %	✓	
		204-927-3	129-00-0								
24	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
25	chrysene				0.14 mg/kg		0.124 mg/kg		0.0000124 %	✓	
	601-048-00-0	205-923-4	218-01-9								
26	benzo[a]pyrene; benzo[def]chrysene				0.15 mg/kg		0.133 mg/kg		0.0000133 %	✓	
	601-032-00-3	200-028-5	50-32-8								
27	indeno[123-cd]pyrene				0.12 mg/kg		0.106 mg/kg		0.0000106 %	✓	
		205-893-2	193-39-5								
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
29	benzo[ghi]perylene				0.17 mg/kg		0.15 mg/kg		0.000015 %	✓	
		205-883-8	191-24-2								
30	monohydric phenols				<2 mg/kg		<2 mg/kg		<0.0002 %		<LOD
			P1186								
31	barium { barium sulphide }				36 mg/kg	1.233	39.255 mg/kg		0.00393 %	✓	
	016-002-00-X	244-214-4	21109-95-5								
32	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg		<0.0003 %		<LOD
	615-018-00-X	203-985-7	112-56-1								
33	benzo[bk]fluoranthene				0.16 mg/kg		0.141 mg/kg		0.0000141 %	✓	
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9								
Total:									0.841 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00566%)

WAC results for sample: WS01-0.70-18/07/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.6	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	7.9	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: WS01-2.15-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS01-2.15-18/07/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.15 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10.2%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.2% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1	●	TPH (C6 to C40) petroleum group				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
				TPH							
Total:									0.0006 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Classification of sample: WS02-0.20-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS02-0.20-18/07/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.20 m	
Moisture content:	
11.9%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11.9% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number									
1		antimony { antimony trioxide }				1.6	mg/kg	1.197	1.687	mg/kg	0.000169 %	✓	
		051-005-00-X	215-175-0	1309-64-4									
2		arsenic { arsenic trioxide }				15	mg/kg	1.32	17.448	mg/kg	0.00174 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
3		boron { diboron trioxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
		005-008-00-8	215-125-8	1303-86-2									
4		cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
		048-002-00-0	215-146-2	1306-19-0									
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14	mg/kg	1.462	18.027	mg/kg	0.0018 %	✓	
			215-160-9	1308-38-9									
6		chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
		024-017-00-8											
7		copper { dicopper oxide; copper (I) oxide }				12	mg/kg	1.126	11.903	mg/kg	0.00119 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
8		lead { lead chromate }			1	158	mg/kg	1.56	217.123	mg/kg	0.0139 %	✓	
		082-004-00-2	231-846-0	7758-97-6									
9		mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
10		nickel { nickel chromate }				10	mg/kg	2.976	26.221	mg/kg	0.00262 %	✓	
		028-035-00-7	238-766-5	14721-18-7									
11		selenium { nickel selenate }				<2	mg/kg	2.554	<5.108	mg/kg	<0.000511 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									
12		zinc { zinc sulphate }				160	mg/kg	2.469	348.072	mg/kg	0.0348 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13		TPH (C6 to C40) petroleum group				14	mg/kg		12.334	mg/kg	0.00123 %	✓	
				TPH									
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	pH				10.1 pH		10.1 pH		10.1 pH		
16	naphthalene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
17	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		205-917-1	208-96-8								
18	acenaphthene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-469-6	83-32-9								
19	fluorene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-695-5	86-73-7								
20	phenanthrene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		201-581-5	85-01-8								
21	anthracene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		204-371-1	120-12-7								
22	fluoranthene				0.18 mg/kg		0.159 mg/kg		0.0000159 %	✓	
		205-912-4	206-44-0								
23	pyrene				0.16 mg/kg		0.141 mg/kg		0.0000141 %	✓	
		204-927-3	129-00-0								
24	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
25	chrysene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9								
26	benzo[a]pyrene; benzo[def]chrysene				0.12 mg/kg		0.106 mg/kg		0.0000106 %	✓	
	601-032-00-3	200-028-5	50-32-8								
27	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		205-893-2	193-39-5								
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
29	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
		205-883-8	191-24-2								
30	monohydric phenols				<2 mg/kg		<2 mg/kg		<0.0002 %		<LOD
			P1186								
31	barium { barium sulphide }				43 mg/kg	1.233	46.728 mg/kg		0.00467 %	✓	
	016-002-00-X	244-214-4	21109-95-5								
32	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg		<0.0003 %		<LOD
	615-018-00-X	203-985-7	112-56-1								
33	benzo[bk]fluoranthene				0.15 mg/kg		0.132 mg/kg		0.0000132 %	✓	
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9								
Total:									0.0645 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00123%)

WAC results for sample: WS02-0.20-18/07/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.7	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	10.1	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: WS02-0.50-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS02-0.50-18/07/2023	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)
11.9%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11.9% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		antimony { antimony trioxide }				1.6 mg/kg	1.197	1.687 mg/kg	0.000169 %	✓		
		051-005-00-X	215-175-0	1309-64-4								
2		arsenic { arsenic trioxide }				24 mg/kg	1.32	27.917 mg/kg	0.00279 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
3		boron { diboron trioxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD	
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				10 mg/kg	1.462	12.876 mg/kg	0.00129 %	✓		
			215-160-9	1308-38-9								
6		chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD	
		024-017-00-8										
7		copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	13.887 mg/kg	0.00139 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }			1	16 mg/kg	1.56	21.987 mg/kg	0.00141 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
9		mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD	
		080-010-00-X	231-299-8	7487-94-7								
10		nickel { nickel chromate }				16 mg/kg	2.976	41.953 mg/kg	0.0042 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
11		selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
12		zinc { zinc sulphate }				65 mg/kg	2.469	141.404 mg/kg	0.0141 %	✓		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
13		TPH (C6 to C40) petroleum group				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD	
				TPH								
14		cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
		006-007-00-5										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	● pH		PH		8.5 pH		8.5 pH	8.5 pH		
16	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
17	● acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
18	● acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
19	● fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
20	● phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
21	● anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
22	● fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
23	● pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
24	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
25	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
26	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
27	● indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	● benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
30	● monohydric phenols				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
			P1186							
31	barium { ● barium sulphide }				29 mg/kg	1.233	31.515 mg/kg	0.00315 %	✓	
	016-002-00-X	244-214-4	21109-95-5							
32	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg	<0.0003 %		<LOD
	615-018-00-X	203-985-7	112-56-1							
33	● benzo[bk]fluoranthene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
Total:								0.0314 %		

Key

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

WAC results for sample: WS02-0.50-18/07/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.9	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	8.5	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: WS03-0.025-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS03-0.025-18/07/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.025 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 0.2% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
2	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
3	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
4	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
5	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
6	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
7	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
8	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
9	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
10	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
11	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
12	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
13	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
14	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
15	benzo[bk]fluoranthene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
Total:								0.00016 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Classification of sample: WS03-0.20-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS03-0.20-18/07/2023	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
6.2%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 6.2% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		antimony { antimony trioxide }				2.8 mg/kg	1.197	3.144 mg/kg	0.000314 %	✓		
		051-005-00-X	215-175-0	1309-64-4								
2		arsenic { arsenic trioxide }				40 mg/kg	1.32	49.539 mg/kg	0.00495 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
3		boron { diboron trioxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD	
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD	
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	24.677 mg/kg	0.00247 %	✓		
			215-160-9	1308-38-9								
6		chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD	
		024-017-00-8										
7		copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	14.785 mg/kg	0.00148 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }			1	59 mg/kg	1.56	86.323 mg/kg	0.00553 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
9		mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD	
		080-010-00-X	231-299-8	7487-94-7								
10		nickel { nickel chromate }				24 mg/kg	2.976	67.002 mg/kg	0.0067 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
11		selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
12		zinc { zinc sulphate }				111 mg/kg	2.469	257.098 mg/kg	0.0257 %	✓		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
13		TPH (C6 to C40) petroleum group				35 mg/kg		32.83 mg/kg	0.00328 %	✓		
				TPH								
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD	
		006-007-00-5										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	pH		PH		10.5 pH		10.5 pH	10.5 pH		
16	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	phenanthrene		201-581-5	85-01-8	0.5 mg/kg		0.469 mg/kg	0.0000469 %	✓	
21	anthracene		204-371-1	120-12-7	0.15 mg/kg		0.141 mg/kg	0.0000141 %	✓	
22	fluoranthene		205-912-4	206-44-0	0.69 mg/kg		0.647 mg/kg	0.0000647 %	✓	
23	pyrene		204-927-3	129-00-0	0.66 mg/kg		0.619 mg/kg	0.0000619 %	✓	
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.42 mg/kg		0.394 mg/kg	0.0000394 %	✓	
25	chrysene	601-048-00-0	205-923-4	218-01-9	0.35 mg/kg		0.328 mg/kg	0.0000328 %	✓	
26	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.35 mg/kg		0.328 mg/kg	0.0000328 %	✓	
27	indeno[123-cd]pyrene		205-893-2	193-39-5	0.27 mg/kg		0.253 mg/kg	0.0000253 %	✓	
28	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	benzo[ghi]perylene		205-883-8	191-24-2	0.28 mg/kg		0.263 mg/kg	0.0000263 %	✓	
30	monohydric phenols		P1186		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
31	barium { barium sulphide }	016-002-00-X	244-214-4	21109-95-5	67 mg/kg	1.233	77.52 mg/kg	0.00775 %	✓	
32	2-(2-butoxyethoxy)ethyl thiocyanate	615-018-00-X	203-985-7	112-56-1	<3 mg/kg		<3 mg/kg	<0.0003 %		<LOD
33	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.5 mg/kg		0.469 mg/kg	0.0000469 %	✓	
Total:								0.0608 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00328%)

WAC results for sample: WS03-0.20-18/07/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1.2	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	10.5	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: WS04-0.50-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS04-0.50-18/07/2023	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)
10.7%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10.7% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number									
1		antimony { antimony trioxide }				1.9	mg/kg	1.197	2.031	mg/kg	0.000203 %	✓	
		051-005-00-X	215-175-0	1309-64-4									
2		arsenic { arsenic trioxide }				14	mg/kg	1.32	16.507	mg/kg	0.00165 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
3		boron { diboron trioxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
		005-008-00-8	215-125-8	1303-86-2									
4		cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
		048-002-00-0	215-146-2	1306-19-0									
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12	mg/kg	1.462	15.662	mg/kg	0.00157 %	✓	
			215-160-9	1308-38-9									
6		chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
		024-017-00-8											
7		copper { dicopper oxide; copper (I) oxide }				15	mg/kg	1.126	15.081	mg/kg	0.00151 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
8		lead { lead chromate }			1	40	mg/kg	1.56	55.717	mg/kg	0.00357 %	✓	
		082-004-00-2	231-846-0	7758-97-6									
9		mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
10		nickel { nickel chromate }				17	mg/kg	2.976	45.183	mg/kg	0.00452 %	✓	
		028-035-00-7	238-766-5	14721-18-7									
11		selenium { nickel selenate }				<2	mg/kg	2.554	<5.108	mg/kg	<0.000511 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									
12		zinc { zinc sulphate }				77	mg/kg	2.469	169.791	mg/kg	0.017 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13		TPH (C6 to C40) petroleum group				72	mg/kg		64.296	mg/kg	0.00643 %	✓	
				TPH									
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
15	• pH		PH		10.8 pH		10.8 pH	10.8 pH		
16	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
17	• acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
18	• acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
19	• fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
20	• phenanthrene				0.5 mg/kg		0.447 mg/kg	0.0000447 %	✓	
		201-581-5	85-01-8							
21	• anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
22	• fluoranthene				0.84 mg/kg		0.75 mg/kg	0.000075 %	✓	
		205-912-4	206-44-0							
23	• pyrene				0.69 mg/kg		0.616 mg/kg	0.0000616 %	✓	
		204-927-3	129-00-0							
24	benzo[a]anthracene				0.41 mg/kg		0.366 mg/kg	0.0000366 %	✓	
	601-033-00-9	200-280-6	56-55-3							
25	chrysene				0.34 mg/kg		0.304 mg/kg	0.0000304 %	✓	
	601-048-00-0	205-923-4	218-01-9							
26	benzo[a]pyrene; benzo[def]chrysene				0.31 mg/kg		0.277 mg/kg	0.0000277 %	✓	
	601-032-00-3	200-028-5	50-32-8							
27	• indeno[123-cd]pyrene				0.21 mg/kg		0.188 mg/kg	0.0000188 %	✓	
		205-893-2	193-39-5							
28	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
29	• benzo[ghi]perylene				0.18 mg/kg		0.161 mg/kg	0.0000161 %	✓	
		205-883-8	191-24-2							
30	• monohydric phenols				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
			P1186							
31	barium { • barium sulphide }				44 mg/kg	1.233	48.466 mg/kg	0.00485 %	✓	
	016-002-00-X	244-214-4	21109-95-5							
32	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg	<0.0003 %		<LOD
	615-018-00-X	203-985-7	112-56-1							
33	• benzo[bk]fluoranthene				0.55 mg/kg		0.491 mg/kg	0.0000491 %	✓	
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
Total:								0.0438 %		

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because **No free product**

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00643%)

WAC results for sample: WS04-0.50-18/07/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.9	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	10.8	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: WS05-0.25-18/07/2023

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

Sample details

Sample name:	LoW Code:
WS05-0.25-18/07/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.25 m	
Moisture content:	
9.8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				3.4 mg/kg	1.197	3.671 mg/kg	0.000367 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				26 mg/kg	1.32	30.964 mg/kg	0.0031 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }				2 mg/kg	3.22	5.809 mg/kg	0.000581 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22 mg/kg	1.462	29.003 mg/kg	0.0029 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	18.28 mg/kg	0.00183 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	17 mg/kg	1.56	23.918 mg/kg	0.00153 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				32 mg/kg	2.976	85.907 mg/kg	0.00859 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc sulphate }				74 mg/kg	2.469	164.821 mg/kg	0.0165 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
13	TPH (C6 to C40) petroleum group				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
			TPH							
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
15	• pH		PH		8.4 pH		8.4 pH	8.4 pH			
16	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
17	• acenaphthylene		205-917-1	208-96-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
18	• acenaphthene		201-469-6	83-32-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
19	• fluorene		201-695-5	86-73-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	• phenanthrene		201-581-5	85-01-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	• anthracene		204-371-1	120-12-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	• fluoranthene		205-912-4	206-44-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	• pyrene		204-927-3	129-00-0	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
26	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
27	• indeno[123-cd]pyrene		205-893-2	193-39-5	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
28	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
29	• benzo[ghi]perylene		205-883-8	191-24-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
30	• monohydric phenols		P1186		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
31	barium { • barium sulphide }	016-002-00-X	244-214-4	21109-95-5	43 mg/kg	1.233	47.842 mg/kg	0.00478 %	✓		
32	2-(2-butoxyethoxy)ethyl thiocyanate	615-018-00-X	203-985-7	112-56-1	<3 mg/kg		<3 mg/kg	<0.0003 %			<LOD
33	• benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
Total:									0.0427 %		

Key

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

WAC results for sample: WS05-0.25-18/07/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	0.9	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	8.4	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

Classification of sample: HP01-0.05-18/07/2023

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

Sample details

Sample name:	LoW Code:
HP01-0.05-18/07/2023	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.05 m	
Moisture content:	
2%	
(wet weight correction)	

Hazard properties

HP 8: Corrosive "waste which on application can cause skin corrosion"

pH; pH "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH: (conc.: 11.6 pH)

Determinands

Moisture content: 2% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4	3 mg/kg	1.197	3.519	mg/kg	0.000352 %	✓	
2	 arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	20 mg/kg	1.32	25.878	mg/kg	0.00259 %	✓	
3	 boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2	1.2 mg/kg	3.22	3.787	mg/kg	0.000379 %	✓	
4	 cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
5	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	21 mg/kg	1.462	30.079	mg/kg	0.00301 %	✓	
6	 chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<2 mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
7	 copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	22 mg/kg	1.126	24.274	mg/kg	0.00243 %	✓	
8	 lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	15 mg/kg	1.56	22.929	mg/kg	0.00147 %	✓	
9	 mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<1 mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
10	 nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	15 mg/kg	2.976	43.751	mg/kg	0.00438 %	✓	
11	 selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<2 mg/kg	2.554	<5.108	mg/kg	<0.000511 %		<LOD
12	 zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	80 mg/kg	2.469	193.593	mg/kg	0.0194 %	✓	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	TPH (C6 to C40) petroleum group				71 mg/kg		69.58 mg/kg	0.00696 %	✓	
			TPH							
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
19	pH				11.6 pH		11.6 pH	11.6 pH		
			PH							
20	naphthalene				0.11 mg/kg		0.108 mg/kg	0.0000108 %	✓	
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
22	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				0.16 mg/kg		0.157 mg/kg	0.0000157 %	✓	
		201-581-5	85-01-8							
25	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
26	fluoranthene				0.14 mg/kg		0.137 mg/kg	0.0000137 %	✓	
		205-912-4	206-44-0							
27	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
28	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
30	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
31	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
33	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
34	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
35	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
36	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
37	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
38	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
39	monohydric phenols				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
			P1186							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
40	barium { barium sulphide }				31 mg/kg	1.233	37.474 mg/kg	0.00375 %	✓	
	016-002-00-X	244-214-4	21109-95-5							
41	2-(2-butoxyethoxy)ethyl thiocyanate				<3 mg/kg		<3 mg/kg	<0.0003 %		<LOD
	615-018-00-X	203-985-7	112-56-1							
42	dichlorodifluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-893-9	75-71-8							
43	chloromethane; methyl chloride				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
44	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
45	bromomethane; methylbromide				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
46	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
47	1,1-dichloroethylene; vinylidene chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
48	2,2-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		209-832-0	594-20-7							
49	chloroform; trichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
50	bromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-826-3	74-97-5							
51	benzo[bk]fluoranthene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9							
52	1,1,1-trichloroethane; methyl chloroform				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
53	1,1-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
54	1,2-dichloropropane; propylene dichloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
55	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
56	dibromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
57	2-methoxy-2-methylbutane; tert-amyl methyl ether				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-213-00-2	213-611-4	994-05-8							
58	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
59	trans-1,3-dichloropropene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		431-460-4	10061-02-6							
60	1,1,2-trichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
61	1,3-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-531-3	142-28-9							
62	dibromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		204-704-0	124-48-1							
63	1,2-dibromoethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
64	chlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
65	1,1,1,2-tetrachloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		211-135-1	630-20-6							
66	styrene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
67	bromoform; tribromomethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							

#	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							
68	cumene 601-024-00-X	202-704-5	98-82-8		0.056 mg/kg		0.0549 mg/kg	0.00000549 %	✓	
69	1,1,2,2-tetrachloroethane 602-015-00-3	201-197-8	79-34-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
70	1,2,3-trichloropropane 602-062-00-X	202-486-1	96-18-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
71	bromobenzene 602-060-00-9	203-623-8	108-86-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
72	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
73	tert-butylbenzene 202-632-4	98-06-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
74	1,2,4-trimethylbenzene 601-043-00-3	202-436-9	95-63-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
75	sec-butylbenzene 205-227-0	135-98-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
76	4-isopropyltoluene 202-796-7	99-87-6			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
77	1,3-dichlorobenzene 602-067-00-7	208-792-1	541-73-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
78	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2	203-400-5	106-46-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
79	n-butylbenzene 203-209-7	104-51-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
80	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7	202-425-9	95-50-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
81	1,2-dibromo-3-chloropropane 602-021-00-6	202-479-3	96-12-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
82	hexachlorobutadiene 201-765-5	87-68-3			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
83	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]		0.061 mg/kg		0.0598 mg/kg	0.00000598 %	✓	
84	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3] 602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
85	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4] 602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
Total:								0.0467 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because No free product

Hazard Statements hit:

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.00696%)

cumene: (conc.: 5.49e-06%)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]: (conc.: 5.98e-06%)

WAC results for sample: HP01-0.05-18/07/2023

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample cannot be evaluated against the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria because of missing determinand values.

The sample cannot be evaluated against the Hazardous (Hazardous waste landfill) criteria because of missing determinand values.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1	3	5	6
2	LOI (loss on ignition)	%		-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg		6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg		1	-	-
5	Mineral oil (C10 to C40)	mg/kg		500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg		100	-	-
7	pH	pH	11.6	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg		-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg		0.5	2	25
10	barium	mg/kg		20	100	300
11	cadmium	mg/kg		0.04	1	5
12	chromium	mg/kg		0.5	10	70
13	copper	mg/kg		2	50	100
14	mercury	mg/kg		0.01	0.2	2
15	molybdenum	mg/kg		0.5	10	30
16	nickel	mg/kg		0.4	10	40
17	lead	mg/kg		0.5	10	50
18	antimony	mg/kg		0.06	0.7	5
19	selenium	mg/kg		0.1	0.5	7
20	zinc	mg/kg		4	50	200
21	chloride	mg/kg		800	15,000	25,000
22	fluoride	mg/kg		10	150	500
23	sulphate	mg/kg		1,000	20,000	50,000
24	phenol index	mg/kg		1	-	-
25	DOC (dissolved organic carbon)	mg/kg		500	800	1,000
26	TDS (total dissolved solids)	mg/kg		4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Missing WAC determinand value

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.

• 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

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

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

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

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

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

■ **monohydric phenols** (CAS Number: P1186)

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

■ **barium sulphide** (EC Number: 244-214-4, CAS Number: 21109-95-5)

GB MCL index number: 016-002-00-X
Description/Comments:
Additional Hazard Statement(s): EUH031 >= 0.8 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH031 >= 0.8 % hazard statement sourced from: WM3, Table C12.2

■ **benzo[bk]fluoranthene** (EC Number: [1] 205-911-9 [2] 205-916-6, CAS Number: [1] 205-99-2 [2] 207-08-9)

Description/Comments: Combined data from harmonised entries in CLP for benzo[b] and benzo[k]fluoranthene; C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Carc. 1B; H350 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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

■ **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane
Data source: N/a
Data source date: 14 Oct 2016
Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

▪ **dichlorodifluoromethane** (EC Number: 200-893-9, CAS Number: 75-71-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 3; H412 , Ozone 1; H420 , Press. Gas; H280

▪ **trichlorofluoromethane** (EC Number: 200-892-3, CAS Number: 75-69-4)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Ozone 1; H420

▪ **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

▪ **bromochloromethane** (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

▪ **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

▪ **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

▪ **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

▪ **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

▪ **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

▪ **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

■ **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

■ **4-isopropyltoluene** (EC Number: 202-796-7, CAS Number: 99-87-6)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 2; H411

■ **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

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

arsenic {arsenic trioxide}

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

boron {diboron trioxide}

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

cadmium {cadmium oxide}

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

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

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

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

Worst Case

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 {nickel selenate}

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

zinc {zinc sulphate}

No VI

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

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

barium {barium sulphide}

No Chromium VI

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2024.9.5904.10918 (09 Jan 2024)

HazWasteOnline Database: 2024.9.5904.10918 (09 Jan 2024)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GB MCL List - version 1.1 of 09 June 2021

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

Amarjit Rai
Viva Property Group Ltd
19 York Road
Northampton
NN1 5QG

2nd April 2025

Our Ref: 5551 25 04 02 Ltr Rpt 06 Rev A AK AR

Dear Amarjit,

SITE: 81/81A Whinbush Road, Hitchin, SG5 1PZ
SERVICE: Summary Statement for Contaminated Land Remedial Work

This Summary Statement for the contaminated land remedial work undertaken to date is understood to be required for provision to your warranty company and lender, to help clarify remedial works completed so far. The following provides a summary of the work we have undertaken to date:

We have attended the above site periodically between the 13th February 2025 and the 18th March 2025 to carry out a Watching Brief during the preparatory groundworks and the remedial excavation of the contaminated hotspot in the south western corner of the site (see Appendix A – Site Photos).

Associated with these groundworks / remediation, waste soil arisings have been removed and disposed of from site as indicated below:

16No. Non-Hazardous Soil loads;

7No. Hazardous Concrete loads;

1No. Hazardous Tarmac load; and

2No. Hazardous Soil loads.

Please also see Appendix B – Disposal Tickets.

Remedial works are ongoing, and our full Verification Report will be available following the completion of all remedial measures.

Kind regards

Damian Jones

Managing Director

d.jones@sevenoaksenvironmental.co.uk

Appendix A – Site Photos

Appendix B – Disposal Tickets



Appendix A

Site Photos

Site Photos



Photo 1: Showing SEC conducting a Watching Brief during removal of Tarmac and Concrete hardstanding.



Photo 2: Showing the removal of Non-Hazardous waste.



Photo 3: Showing the Remedial excavation of the contaminated hotspot to the required depth.

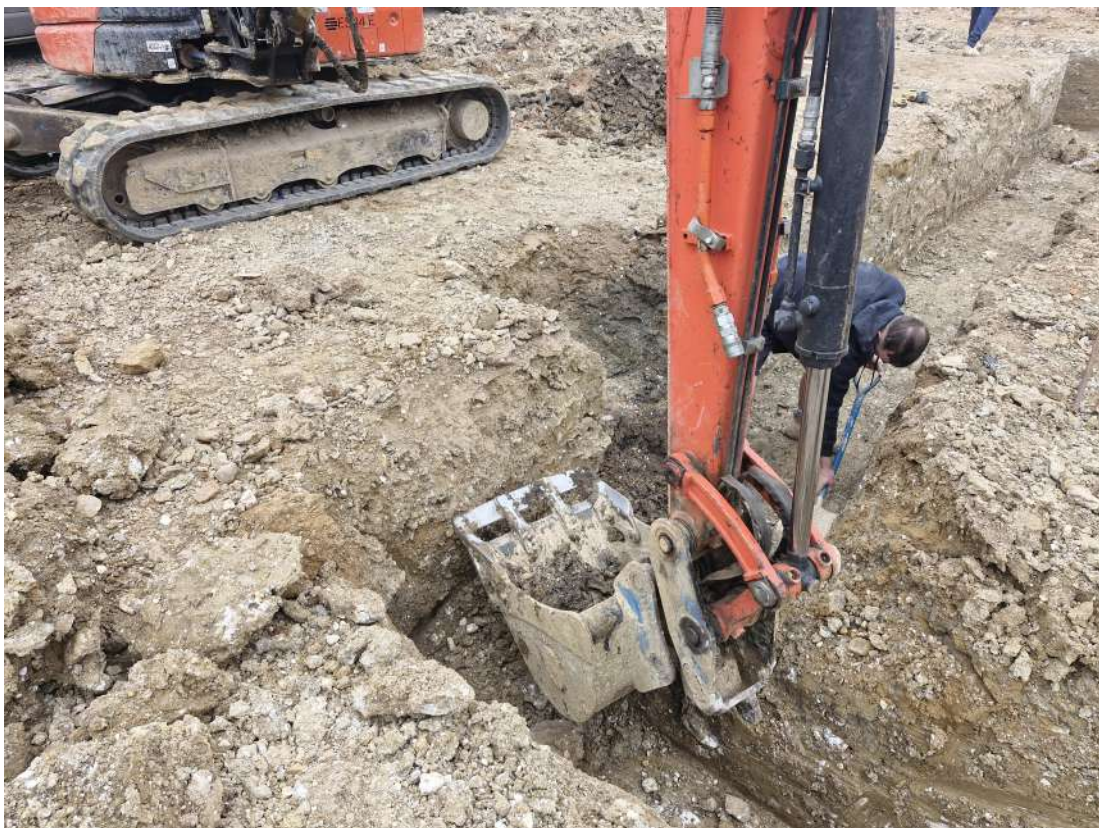


Photo 4: Overseeing the groundworks for the proposed development.



Photo 5: Showing the removal of more waste arisings.

Appendix B

Disposal Tickets



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk



All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Section A.

Description of Waste/Material

NON HAZ
SOIL + STONE

Vehicle Reg. No. 6N16FHW

Cubic Metres

In Words 1X LOAD

GROSS

TARE

NETT

Driver's Name Luke

CLIENT
SIC 41 20 12

EWC 17 05 04

Section B. Current Holder of Waste/Material/Collection Point

Name SOUTHERN ENVIRONMENTAL CONSULTANCY
Address 81 WILKINSON RD, HITCHIN, SG5 1P2

Waste Reg. No. (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. C6DU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name KELTBRAY

Address N/ WOOLWICH ROAD, SILVERDALE, ELIZABETH

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket: This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We cannot be held liable for any damage caused by our vehicles while delivering material to your site.

Signed by Driver

Signed on behalf of Customer

Date

13/2/25

PLEASE PRINT

13/2/25

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613266
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 965642



Section A.

Description of Waste/Material

NON HAZ
SOIL + STONE

Vehicle Reg. No.

6N16FHW

Cubic Metres

In Words

1X LOAD

GROSS

TARE

NETT

Driver's Name

LUNT

CLIENT
SIC

41-20/2

EWC

17-05-04

Section B. Current Holder of Waste/Material/Collection Point

Name: SGOBOLYS ENVIRONMENTAL CONSULTANCY

Address: 81 WHELBUSH RD, HITCHER, S65 1P2

Waste Reg. No (if applicable)

Section C. Person Collecting Waste
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name: KELTBRAY

Address: 21 WOOLWICH RD, SILVERTOWN, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect the material delivered to you and that everything is to your satisfaction, before finally signing this receipt note. We regret that we cannot under any circumstances accept any liability concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We cannot be held responsible for any damage or loss caused by our vehicles while delivering material to your site.

Signed by Driver

Signed on behalf of Customer

Date

13/2/25

PLEASE PRINT

13/2/25

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 Mark Luck Haulage Yard
 Railway Sidings Wested Lane Swanley Kent BR8 8EE
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 Website: www.markluckltd.co.uk
 E-mail: info@markluckltd.co.uk
 All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 965643



Section A.

Description of Waste/Material

NON HAZ
 SOIL + STONE

Vehicle Reg. No.

GN16FHW

Cubic Metres

In Words

1 X LOAD

GROSS

TARE

NETT

Driver's Name

LVM6

CLIENT
 SIC

41-20/2

EWC

17-05-04

Section B. Current Holder of Waste/Material/Collection Point

Name

SOUTHOASTS ENVIRONMENT CONSULTANCY

Address

81 WILKINSHAW RD, HITCHAM, SGB1PZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

SIC Code 49.41

Registered Waste Carrier No: CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTBRAY

Address

N/ WOODHATCH RD, SILVERDOWN, E16 2AD

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt now. We regret we cannot under any circumstances accept any liability concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We cannot be held responsible for any damage caused by our vehicles while delivering material to your site.

Signed by Driver

Sig

Date

14/2/25

PLEASE PRINT

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**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 965644

**Section A.**

Description of Waste/Material

NON HAZ
SOIL + STONECLIENT
SIC

41 2012

EWC

17 05 04

Vehicle Reg. No.

GN16FW

Cubic Metres

In Words

172000

GROSS

TARE

NETT

Driver's Name

LWH6

Section B.

Current Holder of Waste/Material/Collection Point

Name

SEVENOAKS ENVIRONMENTAL SERVICES

Address

21 WILKINSHAW RD, HITCHAM, S65 1PZ

Waste Reg. No (if applicable)

Section C.

Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90760

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D.

Authorised Tip / Delivery Point / Daywork

Name

KELTBRAY

Address

N1 WOOLWICH RD, SILVERTOWN, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorized Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances accept any liability concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We cannot be held responsible for any damage caused by our vehicles while delivering material to your site.

Signed by Driver

Signed on behalf of Customer

Date

14/2/25

PLE

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Mark Luck Haulage Yard
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E-mail: info@markluckltd.co.uk



Nº 969261

All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Section A.

Description of Waste/Material

NON HAZ

Soil & Stone

CLIENT
SIC

47.20/2

EWC

17.05.04

Vehicle Reg. No.

GF17USK

Cubic Metres

In Words

192AB

GROSS

TARE

NETT

Driver's Name

Simon

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENOAKS ENVIRONMENTAL

Address

81 WHINBUSH RD

Waste Reg. No (if applicable)

KITCHEN SEC

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KENTBRAM

Address

Authorised Tip No. (if applicable)

SILVERTOWER

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT

into, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this
receiving quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret
is entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has
responsibility for damage caused by our vehicles while delivering material to your site.

Sign

PLEASE PRINT

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E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 971294



Section A.

Description of Waste/Material

Haz so. C +
Conc

CLIENT SIC 01 20 12

EWG 17 01 05

Vehicle Reg. No. GF885L

Cubic Metres

In Words Grab

GROSS

TARE

NETT

Driver's Name Conor

Section B. Current Holder of Waste/Material/Collection Point

Name

Sevenshaws Enviro

Address

81 Whinbush RD Witley

Waste Reg. No (if applicable)

Section C. Person Collecting Waste
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Keltbray

Address

Silvertown

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed by

Signed on behalf of Customer

Date

3/3/25

PLEASE PRINT

3/3/25

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E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

**Nº 969554****Section A.**

Description of Waste/Material

HAZ
Soil - Concrete

CLIENT
SIC

43 12 /

EWC

07 01 06

Vehicle Reg. No.

G269 XSV

Cubic Metres

In Words

1 x 5003

GROSS

TARE

NETT

Driver's Name

P. C

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENJOAKS ENVIRONMENTAL CONSULTANCY LTD

Address

81 WHITBUSH RD, MITCHEM

Waste Reg. No (if applicable)

SSS 1P2

Section C. Person Collecting Waste SIC Code 49.41
MARK LUCK LIMITED

Registered Waste Carrier No. CBDU90780
Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

LEWIS

Address

SWESTON

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Sign

Date

4/3/25

PLEA

Customers ordering vehicles off the public

entirely at their own risk



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E-mail: info@markluckltd.co.uk
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CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE



Section A.

Description of Waste/Material

HAZARDOUS
CONCRETE/
SOIL

Vehicle Reg. No.

GNI6FWW

Cubic Metres

In Words

1X2000

GROSS

TARE

NETT

Driver's Name

LUNN

CLIENT
SIC

43.12/0

EWC

17.01.06

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Address

81 WILKINSHAM RD, BORTHON, S65 1PZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTBRAY

Address

21 WOOLWICH RD, SEVENOAKS, S65 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot undertake any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We do not accept any liability for damage to or by our vehicles while delivering material to your site.

Signed by Driver

Signed on behalf of Customer

Date

5/3/25

PLEASE PRINT

5/3/25

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wasted Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613266
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E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 969267



Section A.

Description of Waste/Material

CONCRETE & SOIL
HAZ

Vehicle Reg. No. GF7HUSK

Cubic Metres

In Words 1 CRAB

GROSS

TARE

NETT

Driver's Name SIMON

CLIENT
SIC

41 20 2

EWG

07 01 04

Section B. Current Holder of Waste/Material/Collection Point

Name SEVEN OAKS ENVIRONMENTAL

Address 81 WHINBUSH RD

Waste Reg. No. (if applicable) HITCHEN SGS

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49 41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

ICELTBAM

Address

Authorised Tip No. (if applicable)

SILVERTOWN

Waiting time on Site/Daywork

616

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature, has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

SI

SI

NET

Date

5/3/25

PLEASE PRINT

5/3/25

Customers ordering vehicles off the public roads do so entirely at their own risk

Waste

Part A Note

1. Consignment note code:

2. The waste description (name, address):

Seven Oaks Environmental
81 Whinbush Road
Hitchin SG5

Part B Description

1. The process:

3. Waste Details:

Description of Waste:

Contaminated Soil

Part C Carrier

(If more than one carrier, complete a separate schedule of carrier)

1. Carrier Name: On behalf of MARK LUCK LIMITED

2. Carrier registration: CBDU90780

3. Vehicle Registration:

Signature:

Date: 05/03

Part E Consignment

Individual EWC code received (kg)

170503 170101

1. I received this waste

2. Vehicle Registration

3. Where waste is rejected I certify that waste management no(s):

EA/EPR/3035QC
authorises the management given in A4.

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 733245

Section A.

Description of Waste/Material

Non Mxz GAB bed
M/ACLIENT
SIC☐☐☐☐

EWC

170504

Vehicle Reg. No.

EU7UXB

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

JAMES

Section B. Current Holder of Waste/Material/Collection Point

Name

Sevenoaks Enviro

Address

81 WHINBUSH ROAD SG5 1PZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Kellogg

Address

Pleuston Wharf E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

8:00AM

Departure Time

9:00AM

Allowance/TT

Hours Chargeable

1HR

Signed on behalf of Customer

PRINT NAME

N.B. To Customers: Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Signed by Driver

Date

6/3/25

PLEASE PRINT

6/3/25

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MARK LUCK LIMITED

Mark Luck Haulage Yard
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E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 968158



Section A.

Description of Waste/Material

Non Haz

Vehicle Reg. No.

GF68JSL

Cubic Metres

In Words

Grab

GROSS

TARE

NETT

Driver's Name

Conor

CLIENT
SIC

41 20 11

EWC

17 05 04

Section B. Current Holder of Waste/Material/Collection Point

Name

Sevensoaks enviro.

Address

Whinbush RD Hitchin.

Waste Reg. No (if applicable)

Section C. Person Collecting Waste
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Keltbray

Address

Slieve Donard

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Sig

[Redacted Signature]

Signed on behalf of Customer

[Redacted Signature]

Date

21/3/15

PLEASE PRINT

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Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

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All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 733246

Section A.

Description of Waste/Material

SWUCK 000 Lead
NON MAZ

CLIENT
SIC

☐☐☐☐

EWC

17 05 04

Vehicle Reg. No. ECU7CATS

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name JAMES

Section B.

Current Holder of Waste/Material/Collection Point

Name

SEVEN JACKS ENVO

Address

81 WHINN BASH SGS 1P2

Waste Reg. No (if applicable)

Section C.

Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49 41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D.

Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed by Driver

Signed

Date

6/3/25

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

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E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 796853

**Section A.**

Description of Waste/Material

1 GRAB LOAD
NOW HAZ MUCH
AWAY

Vehicle Reg. No. EX24 VTZ

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name ACHAN

CLIENT
SIC ☐☐☐☐

EWC 17 05 04

Section B. Current Holder of Waste/Material/Collection Point

Name SEVENOAKS ENVIRONMENTAL

Address 81 WHINBUSH ROAD SG5 1PLZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste SIC Code 49.41

MARK LUCK LIMITED

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name KELTBRAY RAISTON WHARF

Address E16 2AA

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Signed by Driver

Date

7-3-25

PLEASE PRINT

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Railway Sidings Wested Lane Swanley Kent BR8 8EE
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E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils



Nº 968164

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Section A.

Description of Waste/Material

Non haz

CLIENT
SIC

41 20 1

EWG

17 05 04

Vehicle Reg. No.

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

Section B.

Current Holder of Waste/Material/Collection Point

Name

Address

Waste Reg. No (if applicable)

Section C.

Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D.

Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Time on Site/Daywork

Time

Distance/TT

Signature of Customer

Departure Time

Hours Chargeable

PRINT NAME

NOTE: To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles, once the vehicle has left the site.

Signed by

Date

10/3/25

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

**MARK LUCK LIMITED**

Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
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Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 923735

**Section A.**

Description of Waste/Material

NON HAZ
SOIL + STONE

Vehicle Reg. No.

G216FHW

Cubic Metres

In Words

1 X 10 AD

GROSS

TARE

NETT

Driver's Name

LUNN

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENWAYS ENVIRONMENTAL CONSULTANCY

Address

51 WILKINBUSH RD, HITCHIN, SG5 1PZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780
Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTRAY

Address

21 WOODWICK RD, SILVERTOWN, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Advance/TT

Hours Chargeable

On behalf of Customer

PRINT NAME

N.B. To Customers. Authorized Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, ensuring quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We repeat we cannot order any consequences entertain any claims concerning quantity or quality once the vehicle has left the site and a clear signature has been given. We cannot accept any liability for damage to or loss of goods or materials once they have been loaded onto the vehicle.

Signed by Driver

Date

Customers ordering vehicles off the public roads do so entirely at their own risk

**MARK LUCK LIMITED**

Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
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E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 733249

Section A.

Description of Waste/Material

NON HAZ

8WMS GLASS Lcd

CLIENT SIC ☐☐☐☐☐

EWC 1 2 0 3 0 4

Vehicle Reg. No. EW17 UXB

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name JAMES

Section B. Current Holder of Waste/Material/Collection Point

Name SEVENORBS ENVIRO

Address 81 WIMBOROUGH ROAD SGS 1PZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90760

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name Keltby

Address PROBLEM WMAKT E16

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed by Driver

Customer

Date

11/3/25

PLEASE PRINT

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Railway Sidings Wested Lane Swanley Kent BR8 8EE

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E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 969292

**Section A.**

Description of Waste/Material

NON HAZ

Soil & Stone

CLIENT
SIC

41.20/2

EWC

17.05.04

Vehicle Reg. No.

GF7JUK

Cubic Metres

In Words

1 GRAB

GROSS

TARE

NETT

Driver's Name

Simon

Section B. Current Holder of Waste/Material/Collection Point

Name SEVENOAKS ENVIRONMENTAL

Address 81 WHINBUSH RD

Waste Reg. No (if applicable) HITCHEN SGS

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

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Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTRAY

Address

Authorised Tip No. (if applicable)

SILERTOWN

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Date 17/3/25

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

Nº 975003



MARK LUCK LIMITED
 Mark Luck Haulage Yard
 Railway Sidings Wested Lane Swanley Kent BR8 8EE
 Telephone: (01322) 613355 Fax: (01322) 613265
 Website: www.markluckltd.co.uk
 E-mail: info@markluckltd.co.uk
 All Aggregates - Recycled Materials - Site Clearance - T/Soils



CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Section A.

Description of Waste/Material
 Non HAZ
 Soil + Stone

Vehicle Reg. No. GNI6FHW

Cubic Metres 1 X LOAD

In Words 1 X LOAD

GROSS

TARE

NETT

Driver's Name LUNN

CLIENT SIC 41 20 12

EWC 17 05 04

Section B. Current Holder of Waste/Material/Collection Point

Name SILVERDALE ENVIRONMENTAL CONSULTANCY

Address 81 WILKINSHAM RD, HITCHAM, SG5 1PZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name KECTRAY

Address N1 WOOLWICH RD, SILVERDALE, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Allowance/TT

Departure Time

Hours Chargeable

Signed on behalf of Customer

IT NAME

Signed by Driver [Signature]

Date 17/3/25

Customers ordering vehicles off the public

To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims for loss or damage to material or vehicles while delivering material.

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E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 976169

**Section A.**

Description of Waste/Material

Non haz
Soil and StoneVehicle Reg. No. GL67LCK

Cubic Metres

In Words 1 x load

GROSS

TARE

NETT

Driver's Name JamesCLIENT
SIC47 11 /

EWC

17 05 04**Section B. Current Holder of Waste/Material/Collection Point**Name Severnside EnvironmentalAddress 81 Whimbush Rd Hitchin

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / DayworkName KellbrayAddress Playlaw Wharf Silver town

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed by Driver

Date

PLEASE PRINT

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**MARK LUCK LIMITED**

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E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

Nº 968538**CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE****Section A. GRAB LOAD**
Description of Waste/Material

~~SOIL~~ **SOIL & Hnz**
loads

CLIENT
SIC**41 20/2**

EWC

17 05 03

Vehicle Reg. No.

G218 HXK

Cubic Metres

In Words

1 Load

GROSS

TARE

NETT

Driver's Name

Paul T**Section B. Current Holder of Waste/Material/Collection Point**

Name

Severnaks Environmental

Address

81 Whinbush road

Waste Reg. No (if applicable)

Hitchin SG5 1PZ**Section C. Person Collecting Waste**
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Keffbray

Address

North Woolwich rd Silvertown

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signe

Date

12/3/22

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk



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All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 969296



Section A.

Description of Waste/Material

HAC
SAND & STONE

Vehicle Reg. No. GF174JK

Cubic Metres

In Words 19.283

GROSS

TARE

NETT

Driver's Name SIMON

CLIENT
SIC

41.20/2

EWC

17.03.05

Section B. Current Holder of Waste/Material/Collection Point

Name SEVENOAKS ENVIRONMENTAL

Address 81 WHITBUSH RD

Waste Reg. No (if applicable) HITCHEN SG5 1PZ

Section C. Person Collecting Waste SIC Code 49.41

MARK LUCK LIMITED

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KEET BRAY

Address

SILVERTOWN

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time 09.15

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signature

Date

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
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Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils

Nº 975008



CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Section A.

Description of Waste/Material

CONTAMINATED
SOIL / concrete

Vehicle Reg. No.

GN16FHW

Cubic Metres

In Words

1 X 20 AD

CROSS

TARE

NETT

Driver's Name

1 VIK6

CLIENT
SIC

43.02/0

EWC

07.01.06

Section B.

Current Holder of Waste/Material/Collection Point

Name

SOUNDWAYS ENVIRONMENTAL CONSULTANCY

Address

81 WHITINGHAM RD, HITCHIN, SG5 1PZ

Waste Reg. No. (if applicable)

Section C.

Person Collecting Waste

SIC Code 49.41

Registered Waste Carrier No. CBDU90760

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D.

Authorised Tip / Delivery Point / Daywork

Name

KALTRAY

Address

N/ WOODHURST RD, SILVERDALE, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction before signing this receipt note. We regret we cannot under any circumstances accept a signature that has not been given. We cannot accept a signature that has not been given at the site and a clear signature has been given.

Signed by Driver

Date

18/5/25

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 968544



Section A. CUB LOAD

Description of Waste/Material

Hazardous Concrete

Vehicle Reg. No. GJ18 HXU

Cubic Metres

In Words 1 Load

GROSS

TARE

NETT

Driver's Name Paul T

CLIENT SIC 41.20/2

EWC 17.01.06

Section B. Current Holder of Waste/Material/Collection Point

Name Sevenoaks Environmental

Address 21 Whimbush road Hitchin

Waste Reg. No (if applicable) 595 1P2

Section C. Person Collecting Waste SIC Code 49.41

MARK LUCK LIMITED

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name Keithbray, Plaistow Wharf

Address Silverton E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time 10.45

Departure Time 12.10

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

Aaron Alibekov

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Date 19.3.25

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All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 962905

**Section A.**

Description of Waste/Material

Coal Tar
Haz Lead.CLIENT
SIC ☐☐☐☐/ ☐EWC ☐☐☐☐☐☐Vehicle Reg. No. GF68SL

Cubic Metres

In Words ScrubGROSS 29.10TARE 16.28NETT 12.82Driver's Name Conor**Section B.** Current Holder of Waste/Material/Collection PointName Sevenshaws EnviroAddress Whinbush RD Hitchin

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / DayworkName OSmondsAddress Paddock Wood.

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this notice fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality once the vehicle has left the site and a clear signature has been given. We cannot accept responsibility for damage caused by overloading.

Signed by Driver

Date

19/3/25

PLEASE PRINT

Mark Albany

Customers ordering vehicles off the public roads do so entirely at their own risk

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wasted Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 975013



430526

Section A.

Description of Waste/Material

CONC + SOIL
HAZARDOUS

Vehicle Reg. No.

GW15FHW

Cubic Metres

In Words

1 X 7000

GROSS

TARE

NETT

Driver's Name

LUMB

CLIENT
SIC

43 12 1

EWC

07 01 06

Section B. Current Holder of Waste/Material/Collection Point

Name

SHUBMAN'S ENVIRONMENTAL CONSULTANCY

Address

81 WHITINGDALE RD, HITCHAM, S65 1PZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CB090780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

Section D. Authorised Tip / Delivery Point / Daywork

Name

LABURNAY

Address

N1 WOOLVEN RD, SILVERDOWN, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed by Driver

Date

20/3/25

PLEASE PRINT

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Interim Validation Report for Remedial Work

At:

81/81A Whinbush Road
Hitchin
SG5 1 PZ

For:

Viva Property Group Ltd.

Private and Confidential

Ref: 5551 25 09 11 Rpt 10 Rev A JH BB

Sevenoaks Environmental Consultancy Ltd,
145a Hastings Road, Pembury, Kent, TN2 4JU
Tel: 01892 822999



Association of Geotechnical &
Geoenvironmental Specialists



Sevenoaks
Environmental
Consultancy Ltd

This report was produced in accordance with the
Sevenoaks Environmental Consultancy
Quality Assurance System

Report Ref:	5551 25 09 11 Rpt 10 Rev A JH BB		
	Consultants Name	Consultants Signature	Date
Report written by:	James Harding <i>(Graduate Geo- Environmental Engineer)</i>		09/11/2025
Report Reviewed by:	Brendan Davis <i>Technical Director</i>		15/12/2025

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1.0 Introduction

Sevenoaks Environmental Consultancy Ltd (SEC) was commissioned by Viva Property Group Ltd to produce an Interim Validation Report for the contaminated land remedial works conducted at 81/81A Whinbush Road, Hitchin, SG5 1PZ (refer to Appendix A Figure 1 – Site Location Plan) between 22/11/2023 and 20/03/2025 as part of the site's redevelopment. The scope of work covered by this report is described in SEC's proposal to the Client dated 14th September 2023 (Ref: 5551 23 09 14 Ltr 02 FPA 02 Rev A TI BB).

The proposed development comprised the refurbishment of the existing two-story residential property and demolition of a car repair garage to make way for the construction of new residential properties with gardens fronting Whinbush Road with parking to the rear. (refer to Appendix A Figure 2 – Proposed Site Layout Plan). It is also noted that some initial preparatory groundwork has been undertaken prior to SEC's attendance to support the remediation work.

This report has been produced to help support Planning Conditions 11c and 11d of the associated planning application for this site (Ref: 22/02953/FP), further to the findings of the previous Geo-Environmental reports referenced below;

- 1) Phase 1 Geo-Environmental Desk Study Report by Sevenoaks Environmental Consultancy Ltd (Report Ref: 4996 22 10 10 RPT 01 REV A AK DA) dated October 2022 by SEC Ltd;
- 2) Preliminary Geo-Environmental Site Investigation Report (ref; 5445 23 08 04 Rpt 01 Rev A BD BB) dated August 2023 by SEC Ltd;
- 3) WM3 Waste Classification Assessment (ref: 5457 24 01 18 Ltr Rpt 01 Rev A TI WS) dated January 2024 by SEC Ltd;
- 4) Ground Gas and Groundwater Addendum Letter Report (ref 5551 24 01 05 Ltr Rpt 07 TI BB) dated January 2024 by SEC Ltd;
- 5) Supplementary Geo-Environmental Site Investigation Report (ref; 5551 24 01 05 Ltr Rpt 07 Rev A TI BB) dated January 2024 by SEC Ltd; and
- 6) Remediation Strategy (Ref: 5551 24 01 15 Rpt 08 Rev A TI BB), dated January 2024 by SEC Ltd.

This current report should be read in conjunction with the previous Geo-Environmental reports referenced above.

It is understood that the previous reports referred to above have been approved by the regulators.

2.0 Review of Previous Reports

2.1 Introduction

Previous contaminated land assessment reports for the site have been produced by SEC. The following provides a brief summary of the geo-environmental findings recorded by the previous reports, however reference should be made to the aforementioned documents for a more comprehensive view of the results and their implications.

2.2 Phase 1 Geo-Environmental Desk Study Report by Sevenoaks Environmental Consultancy Ltd (Report Ref: 4996 22 10 10 Rpt 01 Rev A AK DA) dated October 2022 by SEC Ltd;

The following provides a brief review of the previous Desk Study Report that was produced for the site in October 2022.

The Desk Study was written based upon the same proposed residential development as this Interim Validation Report.

The Desk Study identified that the site was in active use as a vehicle repair garage with an adjoining residential property. A central MOT forecourt / yard was noted to be laid to asphalt hardstanding with an existing a residential property in the northwest corner, a single-storey office and reception building along the northern site boundary and a garage building immediately adjacent to the southern boundary was used for vehicle repairs and included 7no. repair bays. The floor of the Garage building was laid to concrete hardstanding. 5no. of the bays to the western side of the building appeared to be used for vehicle servicing / repairs and the remaining bays were in use for storage of parts, oils and tools. Vehicle ramps were used and as such no inspection pit(s) were noted. Some areas of oil staining were noted across the yard and a number of vehicles were parked within this area. The south-western corner of the site was used to store a number of 199L oil drums (Fully Synthetic Low SAPS Engine Oil) and 5L oil bottles (Fully Synthetic Gear Oil) and the hardstanding in this area of the site was heavily oil stained.

Historically the site was identified to have been undeveloped until 1898 when buildings were built in the northeast corner of the site. At this time a pump was also identified on site. By 1923 the previous buildings and pump were removed, and a new building was developed along the northern boundary of the site. In the 1960's a building was developed along the southern boundary of the site.

Offsite historical development included a garages ~7m south of the site, a nursery ~20m north/north-west of the site since 1881, a Gas Works ~80m northwest of the site since 1881, a. Smithy ~70m north of the site since 1898, an Electrical Power Station ~220m south-west of the site since 1923, 2 No. Depots ~140m and ~160m north of the site since 1964, an. Electrical Substation ~30m north of the site since 1976, a. Works ~30m west of the site since 1992; and a discharge consent ~145m southwest associated with the release of a Sewage overflow into the River Hiz.

The British Geological Survey (England and Wales Sheet 288 Solid and Drift Edition) indicated that the site was underlain by bedrock geology comprising West Melbury Marly Chalk Formation (Chalk) with overlying superficial deposits comprising Glaciofluvial Deposits, Mid Pleistocene (Sand and Gravel), Lowestoft Formation (Diamicton). Nearby BGS borehole records recorded conditions consistent with

geology identified by the Geological Map and they recorded that the base of the superficial deposits was unproven at 10m bgl.

The geology underling the site was identified to consist of a Secondary Undifferentiated Aquifer associated with the superficial deposits and a Principal Aquifer associated with the bedrock formation. The site was not located within a Source Protection Zone. Additionally, no groundwater abstractions were identified locally to the site, for potable water supply purposes.

The closest surface water feature to the site was the river Hiz located ~54m to the west. The groundwater gradient regionally was inferred to be towards the south / southwest, however locally the groundwater gradient was noted to possibly be influenced by the river Hiz (Hitchin) and flow may be towards the north.

The Desk Study identified potential on-site sources of contamination including;

- Made Ground associated with the previous phases of development on site since 1898; and
- Previous site use as a Builders Yard, lock up garages, car servicing / repairs garage with potential contaminative features including storage of vehicles, parts, oils, and fuel with evidence of leaked / spilt hydrocarbons given oil staining to the hardstanding.

Potential off site sources of contamination identified included;

- A number of vehicle repair garages (the closest was ~7m south of the site);
- A Nursery ~20m north/north-west of the site since 1881;
- A Gas Works ~80m north-west of the site since 1881;
- A Smithy ~70m north of the site since 1898;
- An Electrical Power Station ~220m south-west of the site since 1923;
- Depots ~140m and ~160m north of the site since 1964;
- An Electrical Substation ~30m north of the site since 1976;
- A Works ~30m west of the site since 1992; and
- A discharge consent of sewage ~145m southwest of the site into the River Hiz.

Further to the risk assessment undertaken the Desk Study recommended the following;

- That in advance of any intrusive investigation that a CCTV drainage survey be completed to determine the current layout and condition of the existing drainage system;
- That further intrusive site investigation be conducted including a ground gas risk assessment in accordance with CIRIA C665 and chemical characterisation of the soil and groundwater (if encountered) beneath the site, to help clarify the potential risks associated with the site's previous uses including a Vehicle Servicing Garage, Made Ground relating to the previous phases of development and the potentially contaminative off-site sources identified. Testing of samples collected as part of the Site Investigation should include for the potential contaminants of concern associated with these sources, including asbestos, metals, speciated PAHs, VOCs and hydrocarbons;

- That a waste classification assessment (including WAC Analysis and a WM3 Assessment in accordance with EA WM3 guidance) be conducted to help inform future waste disposal requirements, associated costs and ensure regulatory compliance.

2.3 Preliminary Geo-Environmental Site Investigation Report by Sevenoaks Environmental Consultancy Ltd (ref; 5445 23 08 04 Rpt 01 Rev A BD BB) dated August 2023 by SEC Ltd;

Further to the recommendations of the Desk Study SEC conducted a Geo-Environmental Site Investigation in August 2023 to support the planning application Ref: 22/02953/FP for the proposed redevelopment of the site and to help address planning condition 13.

The site location layout and condition at the site of the site investigation was the same as that identified by the previous Desk Study.

The site investigation comprised the conduct of 5 No. mini boreholes (WS01 – WS05) and 1 No. hand dug inspection pit (HP01) across the site in positions located to target point sources (such as the storage of oil drums in the southeastern corner of the site), building footprints and to provide general coverage.

Made Ground was encountered in all exploratory holes ranging in depth up to between 0.20m bgl (WS03) and 1.20m bgl (HP01). Typically, the Made Ground appeared to be limited to shallow depth except for HP01 in the southeast corner of the site where the base of the Made Ground was unproven at 1.2m bgl. Hardstanding across the site comprised both concrete and tarmacadum surfacing. Where encountered the concrete hardstanding was 0.1m thick except for WS04 where concrete was identified beneath tarmacadum surfacing which was 0.15m thick. Tarmacadum where encountered was 0.05m thick. Underlying the hardstanding, Made Ground was identified to vary between gravelly Clay, sandy Gravel, and gravelly Sand, with brick, concrete, flint and clinker (HP01) fragments.

Underlying the Made Ground natural deposits were relatively homogeneous across the site and comprised gravelly Clay proven up to 4.0m bgl. Some variable natural material sandwiched between the Made Ground and natural gravelly Clay was identified within WS01 which comprised a horizon of gravelly Sand to 1.30m bgl over Sand to 2.0m bgl.

Groundwater was not encountered during drilling within 5 No. Windowless Sampler boreholes.

A below ground fuel storage tank was identified during the site investigation fieldwork. The tank was located adjacent to WS05 towards the western side of the site. Observations locally from WS05 appeared to suggest that major impact associated with the tank had not occurred.

Based upon the risk assessment undertaken as part of the previous Geo-Environmental Site Investigation, the following was recommended:

- That groundwater and ground gas monitoring be completed, and the findings be presented in an Addendum Report to supplement the findings of the Site Investigation Report. Analysis of any groundwater encountered should include contaminants of concern including hydrocarbons, VOCs and BTEX. The existing monitoring boreholes should be retained and afforded protection until the LPA approved the contaminated land assessment for the site;

- That further investigation be conducted in the front garden of the existing residential property in the northwestern corner of the site. Additionally further validity investigation and analysis was recommended beneath the below ground fuel tank following its decommissioning and removal from site;
- That Petroleum Officer's Records be obtained to establish any further information that may be available for the below ground fuel storage tank that has been identified on site;
- That a Watching Brief be maintained by an Environmental Consultant during the removal of the existing hardstanding covering the site following demolition of the existing buildings to be removed and during the preparatory redevelopment groundwork. Confirmatory chemical laboratory analysis of representative samples should be undertaken for any suspect material identified for the contaminants of concern to help confirm an absence of potentially unidentified contamination;
- That the below ground fuel storage tank be appropriately decommissioned, a degassing certificate be obtained and the tank be removed from site by a tank decommissioning specialist under the supervision of an Environmental Consultant, in accordance with an LPA approved Remedial Method Statement. The tank and any contents e.g fuel, tank bottoms or foam should be appropriately disposed of to a suitably licensed waste management facility in accordance with current Environment Agency WM3 Guidance before the tank is removed / disturbed to help prevent unauthorised releases during removal / decommissioning;
- That areas of proposed soft landscaping / gardens be provided with a certified "clean" cover system, comprising a minimum thickness of 300mm imported topsoil laid over a hi-visibility marker layer (permeable geotextile or similar). The recommended cover system thickness should be re-evaluated in light of any further ground investigation data that becomes available. Subject to existing and proposed site levels existing Made Ground may require excavation and appropriate disposal from site to afford room for the provision of a cover system in garden / landscaped areas. Prior to the importation of topsoil, the supplier's chemical batch data should be provided to an Environmental Consultant for approval in relation to human health and following provision of imported topsoil on site the cover system should be certified including representative chemical analysis to corroborate the initial supplier batch data and that the minimum thickness has been provided over a hi-visibility marker layer. The "clean" cover system should provide in accordance with an LPA approved Remedial Method Statement and documented within a Verification Report for Regulatory approval;
- That a Discovery Strategy should be implemented on site during the redevelopment works which should include for the immediate reporting of any potential indicators of ground or water contamination (e.g. cement bonded asbestos sheeting fragments, ash / clinker or hydrocarbon odours) for additional separate assessment by an Environmental Consultant;
- That groundworkers should wear appropriate PPE and employing high standard of personal hygiene (i.e. washing hands, working in well-ventilated areas, avoid confined spaces, avoiding contact with the soil and not smoking) during all excavation work;
- That all waste material generated during the site's redevelopment should be disposed of from site to suitably licenced waste management facilities in accordance with current Environment

Agency WM3 Guidance. Any waste arisings to be disposed of to landfill will also require chemical WAC testing to inform the correct classification for any receiving facility. The recommended Watching Brief by an Environmental Consultant during preparatory groundwork should help to ensure waste arisings are correctly segregated according to waste streams and waste disposal classification. All waste disposal tickets should be retained for duty of care auditing purposes. If waste arisings are to be considered for re-use on site then it should be noted that this would require implementation of the CL:AIRE CoP or an approved EA waste exemption permit;

- That the water supplier be contacted to determine their requirements with respect to the type of water supply pipe included within the design of the new properties. Subject to their requirements it may be necessary to install chemically resistant barrier water supply pipe. It was therefore recommended that correspondence be obtained from the water supplier which confirmed standard water supply pipe is suitable or alternatively chemically resistant water supply pipe should be afforded to the new properties; and
- That prior to the commencement of any remedial work a Remedial Method Statement should be approved by the Local Planning Authority. In addition, any remedial work undertaken should be documented within a Validation Report

2.4 WM3 Waste Soil Disposal Assessment (5457 24 01 18 Ltr Rpt 01 Rev A TI WS) dated January 2024 by SEC Ltd;

A WM3 Waste Soil Disposal Assessment was produced by SEC, to help inform appropriate Waste Classification for the disposal of arisings anticipated in relation to the redevelopment of the site.

The predominant material types that were considered likely to be generated for off site waste disposal were identified to include;

- 2 no. Stockpiles of Made Ground (consisting of MOT 1 and gravelly Clay arisings respectively).
- 3 Types of hardstanding (tarmac, concrete (both unimpacted by hydrocarbons and impacted by hydrocarbons)).
- 2 types of Made Ground (gravelly Clay and sandy Gravel).
- 2 types of Natural Strata (gravelly Sand and gravelly Clay).

The HazWasteTM Waste Classification Assessment classified these material types with the following waste codes.

- 2 no. Stockpiles of Made Ground (consisting of MOT 1 and gravelly Clay arisings respectively) = both stockpiles as Non-Hazardous waste under code 17 05 04;
- 3 Types of hardstanding (tarmac, concrete (both concrete hardstanding that is unimpacted by hydrocarbons and impacted by hydrocarbons) = tarmac 17 03 02 and concrete unimpacted by hydrocarbons under code 17 01 01 however the hydrocarbon impacted concrete was classified as Hazardous Waste under waste code 17 01 06*;

- 2 types of Made Ground (gravelly Clay and sandy Gravel) = Non-Hazardous waste under waste code 17 05 04 except for the Made Ground in the south western corner of the site locally to WS01 and HP103 where the Made Ground was classified as Hazardous waste under waste code 17 05 03 given elevated concentrations of zinc; and
- 2 types of Natural Strata (gravelly Sand and gravelly Clay) = Non-Hazardous waste under waste code 17 05 04 except for the natural material in the south western corner of the site locally to WS01 and HP103 where natural material was classified as Hazardous waste under waste code 17 05 03 given elevated concentrations of zinc (similarly to the overlying Made Ground).

WAC analysis was also undertaken for some of the waste types to help facilitate disposal to landfill. The Made Ground (gravelly Clay) was identified to require disposal to a landfill licensed to receive Non-Hazardous Waste whereas the WAC test for the other Made Ground type (sandy Gravel) indicated that it was suitable for disposal to an inert landfill. The WAC analysis on natural material indicated that the gravelly Clay required disposal to a landfill licensed to receive Non-Hazardous waste whereas the sandy Clay material was suitable for disposal to an inert landfill.

Given the different waste classifications waste arisings generated during remediation and redevelopment of the site it was recommended that arisings be segregated to facilitate appropriate off site disposal to suitably licensed waste disposal facilities in accordance with current WM3 guidance.

2.5 Ground Gas Risk Assessment Addendum Letter Report (Ref: 4551 22 07 11 Ltr Rpt 01 Rev A AS SP) dated December 2022 by SEC Ltd;

A Ground Gas Risk Assessment Addendum Report was produced to provide comment on the environmental ground gas and groundwater monitoring results recorded for the site.

6 No. rounds of ground gas and groundwater monitoring were conducted including monitoring at periods of low / falling atmospheric pressure. Maximum concentrations of methane did not exceed 0%, carbon dioxide was recorded up to 0.65% and oxygen was recorded to be slightly depleted down to 12.1%. Typically VOCs were not recorded to be elevated more than 10ppm however during a single round of monitoring concentrations were recorded up to 288.8ppm within WS01. Flow rates were negligible and did not exceed 0l/hr.

Groundwater levels were recorded between 1.25m bgl and 3.95m bgl and analysis of the groundwater recorded slightly elevated concentrations of ammonia up to 942ug/l (WS02) and TPH up to 36ug/l (WS02).

It was subsequently recommended that whilst ground gas risks appeared to be low that residual risks associated with potential vapour ingress to the proposed properties should be mitigated by the inclusion of a passively ventilated sub-floor void beneath suspended floor slabs in the design of the proposed development, to help ventilate any vapours that may accumulate. No further action was recommended in relation to the groundwater beneath the site given that the potential sources of the ammonia (existing drainage system) and hydrocarbons (below ground fuel tank and former site use as a garage with localised hydrocarbon hotspot) on site would be removed by the redevelopment.

2.6 Supplementary Geo-Environmental Site Investigation Report (Ref: 5551 24 01 05 Ltr Rpt 07 Rev A TI BM) dated January 2024 by SEC Ltd; and

Further to the findings of the Preliminary Geo-Environmental Site Investigation Report a supplementary investigation was conducted to help satisfy the LPA's requirements in order to facilitate some additional investigation of areas of the site within the footprint of proposed gardens, additional testing of the ground in areas of former above ground fuel storage for VOCs and hydrocarbons (eg southeast corner of the site where oil drums had been kept) and beneath existing building footprints. The scope of Supplementary Site Investigation was specified within a Proposed Geo-Environmental Site Investigation Scheme (ref: 5551 23 10 18 Ltr 01 Rev A TI BB) dated November 2023 which was approved by the LPA and essentially comprised a series of hand dug inspection pits. In addition the report included a search of the Petroleum Officer's records which confirmed that a 50 gallon petrol tank with a former fuel pump had been located to the southern side of the site. It is noted that the fuel pump had been removed but the tank remained beneath the site.

Analysis of soil samples recovered from the additional exploratory holes conducted identified further elevated concentrations of metals within HP103 which was located in the southwestern corner of the site close by to the previous WS01 position. Elevated metals within the Made Ground at HP103 included lead, mercury and zinc as well as elevated PAHs which exceeded generic human health guideline values (except zinc which was elevated with respect to plants rather than human health) based upon guidance values for the proposed residential end use with home grown produce.

The concrete ground slab across the footprint of the garage building located to the southern end of the site was identified to be impacted with elevated concentrations of hydrocarbons. Similarly, the Made Ground beneath the hardstanding within HP101, HP102 and HP103 exhibited elevated concentrations of hydrocarbons which were considered to suggest that leaked / spilt fuels and oils used and stored in the southern area of the site had penetrated beneath the existing ground slab. However, analysis of the natural soils beneath the Made Ground did not identify elevated hydrocarbon concentrations and as such the impact did not appear to have migrated deeper than the near surface soils up to ~1.0m bgl. Potential risks considered in relation to the near surface soils contamination identified were noted to primarily relate to groundworkers involved in the preparatory groundwork required to build the proposed development and in relation to future site occupants in the proposed garden / landscaped areas. Potential risks to site neighbours and controlled waters were considered to be low. Previous recommendations made within the earlier site investigation report were indicated to be remain applicable in order to mitigate potential risks to the receptors associated with the proposed development. The recommendations from the first phase of site investigation were updated and included;

- That the below ground fuel storage tank be appropriately decommissioned, a degassing certificate be obtained and the tank be removed from site by a tank decommissioning specialist under the supervision of an Environmental Consultant, in accordance with an LPA approved Remedial Method Statement. The tank and any contents e.g fuel, tank bottoms or foam should be appropriately disposed of to a suitably licensed waste management facility in accordance with current Environment Agency WM3 Guidance before the tank is removed / disturbed to help prevent unauthorised releases during removal / decommissioning. Additionally validation samples should be recovered from beneath the tank;
- That a Watching Brief be maintained by an Environmental Consultant during the removal of the existing hardstanding covering the site and during the preparatory redevelopment groundwork, to facilitate segregation of hydrocarbon contaminated concrete, tarmac and unimpacted concrete for appropriate off site disposal to a suitably licensed waste management facility. In

addition near surface remedial excavation is required to remove Made Ground that is impacted with elevated concentrations of hydrocarbons, meals and PAHs from the southern end of the site in the vicinity of HP101, HP103 and WS01 up to 1.0m bgl (or natural material whichever is shallowest). Remedial excavations should be certified by basal soil validation sample analysis for the contaminants of concern and confirmatory chemical laboratory analysis of representative samples should be undertaken for any suspect material identified elsewhere across the site during the removal of hardstanding and preparatory groundwork, to help confirm an absence of impact;

- That areas of proposed soft landscaping / gardens be provided with a certified “clean” cover system, comprising a minimum thickness of 300mm imported topsoil laid over a hi-visibility marker layer (permeable geotextile or similar) although a thicker cover system should be provided to 600mm thickness in the gardens proposed within the south western corner of the site where deeper impacted soils were identified. Subject to existing and proposed site levels existing Made Ground may require excavation and appropriate disposal from site to afford room for the provision of a cover system in garden / landscaped areas. Prior to the importation of topsoil, the supplier’s chemical batch data should be provided to an Environmental Consultant for approval in relation to human health and following provision of imported topsoil on site the cover system should be certified including representative chemical analysis to corroborate the initial supplier batch data and that the minimum thickness has been provided over the a hi-visibility marker layer. The “clean” cover system should provide in accordance with an LPA approved Remedial Method Statement and documented within a Verification Report for Regulatory approval;
- That a Discovery Strategy should be incorporated into the site induction for all operatives during the redevelopment works and should include for the immediate reporting of any potential indicators of ground or water contamination (e.g. cement bonded asbestos sheeting fragments, ash/clinker or hydrocarbon odours) for additional separate assessment by an Environmental Consultant;
- That groundworkers should wear appropriate PPE and employing high standard of personal hygiene (i.e. washing hands, working in well-ventilated areas, avoid confined spaces, avoiding contact with the soil and not smoking) during all excavation work;
- That all waste material generated during the site’s redevelopment should be disposed of from site to suitably licenced waste management facilities in accordance with current Environment Agency WM3 Guidance. Any waste arisings to be disposed of to landfill will also require chemical WAC testing to inform the correct classification for any receiving facility. The recommended Watching Brief by an Environmental Consultant during preparatory groundwork should help to ensure waste arisings are correctly segregated according to waste streams and waste disposal classification. All waste disposal tickets should be retained for duty of care auditing purposes. If waste arisings are to be considered for re-use on site then it should be noted that this would require implementation of the CL:AIRE CoP or an approved EA waste exemption permit;
- That chemically resistant water supply pipe (also known as barrier pipe) included within the design of the new properties to help mitigate potential residual risks associated with ground contamination impacted the new water supply pipework to be provided on site; and

- That a Remedial Method Statement be submitted for approval by the Local Planning Authority prior to for the conduct of the recommended remedial work. In addition any remedial work undertaken should be documented within a Validation Report.

2.7 Remediation Strategy (Ref: 5551 24 01 15 Rpt 08 Rev A TI BB), dated January 2024 by SEC Ltd.

Further to the findings of the previous Geo-Environmental Reports, SEC produced a Remediation Strategy to present the proposed remedial strategy to be adopted during the redevelopment of the site. In summary the Remedial Strategy proposed was based on the following:

Watching Brief

A Watching Brief was to be maintained by an Environmental Consultant during the removal of the hardstanding from across the site and during preparatory groundworks (e.g. reduction of site levels or foundation trenches).

The purpose of the Watching Brief was to facilitate the following;

- 1) Segregation of tarmac, hydrocarbon impacted concrete and unimpacted concrete to support appropriate off site disposal given the varying waste classification codes for the existing hardstanding materials across the site;
- 2) To oversee the remedial excavation of the contaminated Made Ground identified in the southwestern corner of the site within the vicinity of HP103 and WS01;
- 3) To inspect and sample for laboratory analysis soils exposed during preparation of the site for construction, in order to confirm an absence of previously unidentified contamination; and
- 4) To support the segregation of waste material arisings in order to facilitate appropriate disposal of the various waste streams from site.

Discovery Strategy

A Discovery Strategy was proposed to be employed on site during the remediation and follow-on redevelopment groundwork, to help manage the potential for encountering previously unidentified contamination / suspected contamination.

Appropriate Disposal of Waste Arisings

Waste material arisings were to be segregated based upon the various waste streams identified by the WM3 Waste Classification Assessment. Each waste stream should be disposed of separately to appropriately licensed waste disposal facilities. See below for a summary of Details of the waste classification for the Made Ground and Natural material encountered on site are provided in the Waste Classification Report.

Material Type for Reference	Depth Range (bgl)	Landfill Acceptance (WAC Classification)	Waste Classification	Waste Code
Stockpile of MOT Type 1 gravel	-	-TBC	Non-Hazardous	17 05 04
Stockpile of Made Ground (gravelly Clay)	-	TBC	Non-Hazardous	17 05 04
Bituminous (tarmac) Surfacing	GL – 0.20m bgl	-	Hazardous	17 03 02
Concrete Hardstanding impacted by hydrocarbons	GL – 0.25m bgl	-	Hazardous	17 01 06*
Concrete Hardstanding unimpacted by hydrocarbons	GL - 0.25m bgl	-	Non-Hazardous	17 01 01
Made Ground (gravelly Clay impacted with metals and hydrocarbons WS01 and HP103)	0.00~0.30m bgl	Non-Hazardous	Hazardous	17 05 03*
Made Ground (gravelly Clay unimpacted by contaminants)	0.00 - ~1.20m	TBC	Non-Hazardous	17 05 04
Made Ground (sandy Gravel)	0 – 1.20m bgl	Inert	Non-Hazardous	17 05 04
Natural Material (gravelly Sand impacted with elevated concentrations of zinc WS01)	0.2 - 1.20m bgl	TBC	Hazardous	17 05 03*
Natural Material (gravelly Sand unimpacted by zinc)	0.15 - 2.0m bgl	TBC	Non-Hazardous	17 05 04
Natural Material (gravelly Clay)	1.00 - 4.45m bgl	Non-Hazardous	Non-Hazardous	17 05 04

If previously unidentified waste types were encountered then chemical characterisation (including WAC testing) should be carried out prior to disposal to ensure that materials are correctly classified and disposed of appropriately.

Areas of Proposed Garden and Import Material Requirements

Areas of proposed gardens were to be provided with a “clean” cover system comprising the provision of a minimum thickness of 300mm imported topsoil laid over a high visibility geotextile marker layer with a thicker cover system to 600mm in the southwestern corner of the site.

Imported topsoil provided to site should be certified chemically “clean”. As such the supplier’s chemical batch data should be provided to an Environmental Consultant for approval prior to delivery of material to site and the cover system should be validated by an Environmental Consultant to confirm the thickness of imported topsoil to the required minimum thicknesses, that a hi-visibility marker layer has been provided and that laboratory analysis of representative validation samples is undertaken to corroborate the initial batch supplier data. Validation samples should be conducted for laboratory analysis for a suite of determinands including asbestos, metals, speciated PAHs, organic matter, TPH, phenols and pH. The validation sample results should be compared to the LQM/CIEH Suitable 4 Use Levels (S4ULs) 2015 based upon a residential end use with homegrown produce. All imported material delivery tickets should be retained.

Groundwater and the Control of Surface Water Run Off

No groundwater remediation was considered necessary however any dewatering (including surface water management) required should either be discharged to foul sewer under an approved Discharge Consent or to a suitably licensed disposal facility by lorry tanker (disposal documentation to be retained). Chemical testing of water to be removed from site will be required to facilitate a permitted discharge consent or off site disposal. If it is proposed to recirculate the groundwater back into the ground consideration of Environment Agency requirements will be necessary.

During the proposed redevelopment of the site no unauthorised releases from site are to occur. To help prevent unauthorised releases from site, surface water runoff management considerations should include;

- Provision of temporary bunds as may be necessary to help prevent runoff from site;
- Use of drip trays / spill kits associated with plant to prevent contamination of surface water;
- Sheeting over and under stockpiles of any impacted material; and
- Appropriate off site disposal of any ponded surface water via either foul sewer under an approved discharge consent or by lorry tanker to suitably licensed waste management facilities.

Ground Gas Risk Mitigation

Given consideration of the former site use and the potential for organic contamination to be degrading within the ground beneath the site associated with this use and the VOCs recorded, the design of the proposed development should include passively ventilated sub-floor voids beneath suspended floor slabs as a precautionary measure to help any vapours vent to the atmosphere. The design of the floor slab construction should therefore be provided to an Environmental Consultant and inclusion within the Verification Report for the site.

Site Traffic

Consideration of wheel cleaning facilities should be given throughout the duration of the redevelopment work to prevent debris / mud being tracked off site onto local roads. It may also be necessary to dampen down site soils to prevent dust generation by vehicles accessing the site subject to weather conditions. All wheel wash runoff should be appropriately managed. Should conditions necessitate, a road sweeper will be employed to supplement the jet washing of vehicles wheels in order to keep the local roads free

from mud debris. No dry sweeping is permitted.

Any contaminated water produced as a consequence of these operations will be disposed of in accordance with current best practice and statutory guidance either to foul sewer under a discharge consent and following pre-treatment via a silt buster or via a licensed suction tanker to an approved disposal facility with any waste water disposal tickets should be retained for inclusion within the Validation Report.

Other Remedial Measures

Chemically resistant water supply barrier pipe is to be included within the design of the proposed development to help protect the water supply from potential residual contamination. The specification for the water supply pipe proposed should be provided to an Environmental Consultant for approval and the installation of barrier pipe should be documented (e.g. by ways of photos and a layout plan).

During all works on site associated with the construction of the proposed development workers will wear appropriate PPE and employ high standards of personal hygiene (including washing hands before eating), work in well-ventilated areas, avoid confined spaces, avoid contact with soil and groundwater and not to smoke.

No unauthorised releases shall be permitted from site during the proposed development works. Any discharges should be consented by the Environmental Agency.

3.0 Remedial Works

3.1 Introduction

Further to the previous reports briefly summarised above, SEC was instructed by the Client to help support initial remedial work during the commencement of the redevelopment of the site. It is noted that SEC supported measures during the redevelopment work undertaken between 22/11/2023 and 20/03/2025 and the following provides a commentary for the remedial work overseen by SEC. Remaining remedial work is to be reported separately.

3.2 Site Description Prior To Remediation

Prior to the conduct of any remedial work, the site comprised an approximately square shaped plot accessible from Whinbush Road to the west with an unoccupied residential property to the northwest corner and a disused former vehicle repair garage to the east, a single storey office and reception building along the northern boundary, a forecourt in the centre of the site laid to asphalt hard standing and outbuildings used as a car repair garage and for storage along the southern boundary (refer to Appendix B – Site Photos). The site layout and condition prior to the commencement of remedial work were consistent with that observed during the previous phase of Site Investigation.

3.3 Remedial Works Proposed

In order to help mitigate potential risks associated with the sources of contamination that had been identified on site, remedial measures were proposed as described below.

A Discovery Strategy was to be implemented on site to help provide a procedure to follow, in the event that unforeseen or previously unidentified potentially contaminated arisings were to be encountered during the redevelopment of the site.

A Watching Brief was to be maintained by an Environmental Consultant during the groundwork for the proposed development. The Watching Brief was to observe the removal and segregation of the hardstanding from across the site, the remedial excavation of the hotspot of hydrocarbon and metal impacted Made Ground in the southwest corner of the site, preparatory groundwork excavation (e.g. for foundations and services) and to support waste segregation.

The below ground fuel storage tank beneath the site was to be appropriately decommissioned, degassed and the tank was to be removed from site by a tank decommissioning specialist under the supervision of an Environmental Consultant. The tank and any contents e.g. fuel, tank bottoms or foam was to be appropriately disposed of to a suitably licensed waste management facility in accordance with current Environment Agency WM3 Guidance, to help prevent unauthorised releases during removal / decommissioning;

Following excavation of the hotspot of impacted Made Ground from the southwest corner of the site under the supervision of an Environmental Consultant, validation testing from the base of the remedial excavation was proposed to help confirm successful removal of the hydrocarbon and metals

contaminated material. Any imported material used to backfill the remedial excavation (e.g. Engineered fill beneath hardstanding or topsoil in garden areas) should be certified “clean” and suitable for use. The supplier’s chemical batch data will be provided to the Environmental Consultant prior to import of material to site for approval and then following provision to site the imported materials should be subject to representative soil validation sample analysis, to corroborate the supplier’s batch data and confirm chemical suitability in relation to human health.

That if groundwater is encountered during the development of the site, or should surface water run-off occur on site, then effective management methods should be implemented to prevent unauthorised releases and that any waste disposal is sent to the appropriate waste management facility.

All waste arisings disposed of from site are to be compliant with current EA WM3 guidance.

Given consideration of the former site use and the potential for organic contamination to be degrading within the ground beneath the site associated with this use and given the VOCs recorded during the Site Investigation, the design of the proposed development should include passively ventilated sub-floor voids beneath suspended floor slabs.

Areas of proposed soft landscaping / gardens are to be provided with a certified “clean” cover system, comprising a minimum thickness of 300mm imported topsoil laid over a hi-visibility marker layer (permeable geotextile or similar) although a thicker cover system should be provided to 600mm thickness in the gardens proposed within the southwestern corner of the site where deeper impacted soils are to be remediated. Subject to existing and proposed site levels existing Made Ground may require excavation and appropriate disposal from site to afford room for the provision of a cover system in garden / landscaped areas. Prior to the importation of topsoil, the supplier’s chemical batch data will be provided to an Environmental Consultant for approval in relation to human health and following provision of imported topsoil on site the cover system should be certified including representative chemical analysis to corroborate the initial supplier batch data and that the minimum thickness has been provided over the a hi-visibility marker layer. The “clean” cover system will be provided in accordance with an LPA approved Remedial Method Statement and documented within a Verification Report for Regulatory approval.

To mitigate residual risks to future site occupants, it was also required to install a chemically resistant water supply pipe (also known as barrier pipe) within the design of the development. Prior to the installation on site, the specification for the proposed pipework will be provided to an Environmental Consultant for approval. The installation of the chemically resistant water supply pipework will be documented by an Environmental Consultant and detailed within the Verification Report.

All supporting information, including disposal tickets for material removed from site, was required to be collated upon completion of the redevelopment for inclusion with a Validation Report to confirm that the risks to workers, site neighbours and future site users had been appropriately managed to reduce exposure pathways as far as reasonably practicable.

3.4 Remedial Works Undertaken

Discovery Strategy

Upon SEC's involvement with the remedial work at the site a Discovery Strategy was implemented to provide a protocol for groundworkers to follow in the event that previously unidentified potential contamination was identified during the redevelopment work. See Appendix C for the Discovery Strategy that was implemented.

Below Ground Fuel Tank Storage Decommissioning

The 500-gallon below ground fuel storage tank located beneath the western side of the site, adjacent to the site entrance (refer to Appendix Di – Petroleum Officer Records) was decommissioned and removed by J.W Hinchliffe (Tanks) Ltd on 22/11/2023 under the watching brief of an SEC Engineer (refer to Appendix B – Site Photos, Appendix Dii – Tank Decommission Job Card & Appendix Diii Tank Decommission Method Statement). A mechanical excavator was used to break out the overlying tarmac and concrete hardstanding and to excavate surface material to uncover the tank. Then a visual and atmospheric assessment was undertaken. The tank was cut open using an air operated non sparking (copper beryllium) chisel. Some residual liquid contents found within the tank and was uplifted using an air operated pump into a 500L Vac Unit for offsite disposal.

Once all the liquid was removed, the tank was degassed, lifted for offsite disposal (see Appendix B for photos) and soil validation samples were recovered from the Made Ground and natural soil beneath the tank at 1.50m and 2.30m bgl respectively. These samples were then analysed at an independent UKAS accredited laboratory. The 2 no. tank validation samples (test report 23-14552 dated 07/02/2024 samples Tank at 1.50m bgl and Tank Val 01 at 2.30m bgl) were tested for Total Petroleum Hydrocarbons (TPH) and Volatile Organic Compounds (VOCs). The results recorded concentrations under the laboratory's limit of detection were therefore "clean" and compliant with the remedial chemical criteria presented within the Remedial Method Statement (refer to Appendix Div – Tank Validation Laboratory Results and Appendix A Figure 4). Imported MOT material was sourced from Torr Quarry by Aggregate Industries UK Limited and was used to backfill the excavation / void left following the removal of the tank. Supplier geotechnical batch data was provided by J.W Hinchliffe (Tanks) Ltd (refer to Appendix Dv – MOT Geotechnical Batch Data & Chemical Validation Results). A sample of the imported MOT material was collected for Chemical Validation Analysis and the sample was scheduled for a suite of analysis including Metals, Poly Aromatic Hydrocarbons (PAHs), asbestos (presence / absence) and Aliphatic Hydrocarbons (test report 23-15326 dated 15/12/2023). The validation analysis results recorded concentrations for these chemicals under the laboratory's detection limits indicating that the material was chemically "clean" and compliant with the remedial chemical criteria presented within the Remedial Method Statement (refer to Appendix A Figure 4).

The fuel tank was removed from site to J W Hinchliffe Ltd, Weaver Street, Leeds, West Yorkshire, LS4 2AU by J W Hinchliffe Ltd for disposal as 16 01 17 ferrous metal waste (refer to Appendix Dvi – Tank Disposal Consignment Notes). The liquid waste from inside the tank that was collected into the 500L Vac Unit was also removed from site by J W Hinchliffe Ltd and taken to J W Hinchliffe Ltd, Weaver Street, Leeds, West Yorkshire, LS4 2AU for disposal. This was classified as Waste Containing Oil with more than 1% of hydrocarbons, its EWC (European Waste Catalogue) Code was 16 07 08 and had a Hazard Code HP3 for flammable waste (refer to Appendix Dvi – Tank Disposal Consignment Notes). A

Gas Free Certificate was also provided prior to the removal of the tank showing that the tank was found to be free from the flammable gas or vapour (refer to Appendix D-vii Gas Free Certificate). The Certificate of Tank Decommissioning (refer to Appendix Dviii) confirms that the tank had previously contained white diesel.

Given absence of contamination from beneath the tank based on initial and olfactory observations (including the use of a Photoionization Detector (PID)) and soil validation results, no further remedial excavation was required in relation to the former fuel tank.

Watching Brief during Groundwork

Following the tank decommissioning in 2023, no further work was undertaken at the site until SEC were instructed to support the redevelopment of the site in early 2025. We initially visited the site on the 30th January 2025 and at this time it was observed that preparatory groundworks had already begun with the removal of approximately 2/3 of the hardstanding from across western area of the site and the commencement of excavation of some of the foundations for Flat 3 (refer to Appendix A Figure 2 – Proposed Site Layout Plan and Appendix B Site Photos). It was also noted that the stockpile of arisings contained a mixture of concrete and tarmac and as such segregation by the contractor was required to separate the waste streams for disposal.

The eastern side of the site, where the proposed car park is located remained covered by hardstanding and was used for the storage of building materials for the proposed development and stockpiles of the excavated material pending disposal from site. At this time Flat 3's foundations were poured, and the first few courses of brickwork had been laid. A stockpile of non-hazardous soil arisings was noted centrally on site adjacent to Flat 3.

In accordance with the remedial strategy and further to the initial site visit in late January, a Watching Brief was then maintained by an SEC Engineer during the continuation of the preparatory groundworks between the 13th February and the 18th March. During the Watching Brief SEC oversaw the remedial excavation to remove the hotspot of Made Ground contamination from the southwest corner of the site (as detailed below), the excavation of the footings and the segregation of arisings for offsite disposal.

Remedial Excavation of Hydrocarbon and Metals Impacted Soil Hotspot in Southwestern Area of the Site

Further to the hotspot of contamination identified within WS01 in the southwest corner of the site, in an area of the proposed gardens, associated with the previous oil drums that had been stored in this area when the site operated as a vehicle repair garage, remedial excavation was undertaken (refer to Appendix A Figure 3 – Validation Sample Location Plan). The excavation was conducted under SEC's supervision, using a mechanical excavator. The remedial excavation was ~3m by 6m in size and initially the hydrocarbon stained and impacted concrete hardstanding was removed and segregated and then the underlying contaminated Made Ground was excavated down to 0.60m bgl. Visual and olfactory observations helped to guide the remedial excavation and once the obviously stained / odorous material had been excavated the sides and base of the excavation were inspected using a PID to help indicate that the impacted soil had been removed. 5 no. basal soil validation samples were collected to help confirm that the impacted material had been successfully removed (refer to samples Val A – E on Appendix A Figure 3 – Validation Sample Location Plan). These samples were sent to an independent

UKAS accredited laboratory and tested for Zinc, Lead, Total Petroleum Hydrocarbons (TPH) and Speciated TPH (refer Appendix Eii – Hotspot Soil Validation Laboratory Results).

The laboratory analysis results indicated that for the contaminants of concern detailed above, the samples tested did not record concentrations in exceedance of the Remedial Target Values in relation to human health (refer to Appendix A Figure 4). However, it is noted that the concentration of zinc recorded in Val C could be considered elevated for some species of plants at 808mg/kg although was not sufficiently elevated to pose a human health risk (refer Appendix Eii – Hotspot Soil Validation Laboratory Results and refer to Appendix A Figure 3 for the sample location plan). The hotspot remedial excavation was not however backfilled / reinstated during SEC's attendance on site.

The waste arisings generated by the hotspot excavated were disposed of appropriately to a suitably licensed waste disposal facility and has been detailed in the Waste Disposal section below.

Waste Disposal

All individual waste disposal tickets for the arisings generated during the remedial excavation and the preparatory groundworks undertaken between the 13th February and the 18th March are presented within Appendix F - Waste Disposal Summary & Tickets, and a summary is provided below and in spreadsheet:

During the excavation of the footings and remedial work overseen by SEC a total of 20no. 15 tonne grab lorries of non-hazardous waste soil arisings were removed from site under waste classification code 17 05 04 (non-hazardous waste); 7no. 15 tonne grab lorries of hydrocarbon impacted concrete waste arisings were removed from site as hazardous waste under waste classification code 17 01 06 and 2no. 15 tonne grab lorries of waste soil arisings were removed from site as hazardous under waste classification code 17 05 03*. All of the loads of waste material were removed / organised by Mark Luck Ltd who disposed of the loads of waste arisings to Keltbray Environmental Ltd, Plaistow Wharf, Dock Road off North Woolwich Road, West Silvertown, E16 2AB.

1no. 15 tonne grab lorry load of tarmac arisings was disposed of from site under waste classification code 17 03 02* by Mark Luck Ltd to Osmonds Transport & Planing Ltd, Greenacres Farm Old Hay, Tonbridge TN12 7DG.

No waste arisings were re-used on site during SEC's involvement during the remediation work documented in this report.

Ground Gas Risk Mitigation

Given consideration of the former site's use and the potential for organic contamination to be degrading within the ground beneath the site associated with this use and given the VOCs previously recorded, the Remedial Method Statement indicates that the design of the proposed development should include passively ventilated sub-floor void. However, during SEC's attendance to site only the first courses of brickwork were being laid and as such evidence of the passively ventilated sub-floor void beneath the new buildings is not included in this report.

Groundwater and the Control of Surface Level Run Off

During the redevelopment and remedial work undertaken on site during the period of time observed by SEC no dewatering was required and no unauthorised releases of surface water occurred.

3.5 Remedial Works Variations

Infilled Former Soakaway

During the Watching Brief undertaken, on the 27/02/2025 an old soakaway chamber towards the northeastern corner of the site (refer to Appendix A Figure 3 – Validation Sample Location Plan) was uncovered during some of the preparatory groundwork and was noted to be partially infilled. The opening of the chamber was approximately 0.30m by 0.45m with the infill noted to be 0.40m bgl (refer to Appendix B – Site Photos). The infill material appeared to comprise a Made Ground: brown sandy Clay with fragments of flint, brick, concrete and tarmac. A sample of the infilled material – Val01 was sent to an independent UKAS accredited laboratory for analysis to help indicate the chemical characteristics of this infill material and to also help inform waste disposal classification (refer to Appendix Gi – Infilled Soakaway Laboratory Results).

From the results of the laboratory analysis (test reports 25-03297 dated 02/04/2025), the infill material recorded chemical exceedances of concentrations with respect to the Remedial Target Values (refer to Appendix A Figure 4) including concentrations of lead (402mg/kg), Benzo(a)pyrene (2.88mg/kg) and Dibenz(ah)anthracene (0.33mg/kg). The material was also identified to be impacted by loose asbestos fibres in the form of Chrysotile Asbestos present in microscopic cement fragments. As a result, the sample was scheduled for an asbestos quantification, which an asbestos concentration of 0.003% (in test report 25-03789 dated 09/04/2025) (refer to Appendix Gi – Infilled Soakaway Laboratory Results and refer to Appendix A Figure 3 – Validation Sample Location Plan). SEC understands this chamber is located in the area of the proposed car park and where the proposed attenuation tank is to be located. As such it is understood that the former chamber will require excavation and removal to facilitate the installation of the new attenuation tank however at the time SEC were in attendance on site the soakaway chamber and infill material remained undisturbed.

A WM3 Waste Classification Assessment was conducted for the infilled soakaway material (refer to Appendix Gii – Infilled Soakaway Material WM3) which classified the infill material as non-hazardous waste (17 05 04*) for offsite disposal. However, with respect to disposal to landfill it was noted that the material would have to be treated given that it failed the inert waste landfill criteria for antimony and DOC (dissolved organic carbon) as well as failing the stable non-reactive hazardous waste in non-hazardous landfill also for DOC (dissolved organic carbon).

Hotspot of Hydrocarbon Impacted Material Adjacent to Flats 1 and 2

During the Watching Brief of the foundation excavation for flats 1 and 2 on 07/03/2025, some Hydrocarbon-stained soils were identified along the trench. As detailed by the Discovery Strategy (refer to Appendix C – Discovery Strategy) SEC inspected and sampled the suspected hydrocarbon impacted material in question for laboratory testing to evaluate if the material was impacted and required removal.

The hydrocarbon-stained material was notably stained black compared to the surround material, and exhibited a strong hydrocarbon odour which was also gave an elevated PID reading.

Further to the identification of this stained and odorous material, remedial excavation was conducted on 10/03/2025 to remove the black stained material under SEC's supervision. The impacted arisings generated were segregated pending disposal. The stained and odorous material was chased out and the resulting excavation was small measuring approximately 0.70m by 1.20m by 1.05m. The Photoionization Detector was used to assist the remedial excavation and validation samples were taken at the base of the excavation and the 3 surrounding sides where the black stained area formerly resided (refer to Appendix A Figure 3 – Validation Sample Location Plan and Appendix B – Site Photos). These samples were called SS01A – SS01D and they were sent to an independent UKAS accredited laboratory and tested for Volatile Organic Compounds (VOCs) and Texas Total Petroleum Hydrocarbons (TPH).

From test report 25-02781 dated 13/03/2025 (refer to Appendix H – Hydrocarbon-Stained Soil Test Results), elevated concentrations of hydrocarbons were recorded which exceeded the remediation criteria and included: EPH Texas (>C10 - C12) of 143mg/kg, EPH Texas (>C12 - C16) of 1124mg/kg, EPH Texas (>C16 - C21) of 824mg/kg and Ethyl Benzene of 59µg/kg in SS01A; and EPH Texas (>C12 - C16) of 564mg/kg and EPH Texas (>C16 - C21) of 424mg/kg in SS01C (refer to Appendix A Figure 3 – Validation Sample Location Plan).

Given the construction programme, the Client continued with pouring the foundations and constructing the new buildings before carrying out any further excavation of the impacted soils. SEC understands that others will oversee and validate the remedial excavation of the residual impacted material remaining in the hotspot in due course, which will be reported separately.

4.0 Conclusions and Recommendations

Remedial measures have been implemented on site during the redevelopment of this site. This Validation report details the remediation work overseen and documented by SEC which included removal of the former below ground fuel storage tank and a watching brief during the initial preparatory groundwork undertaken involving primarily the removal of the hotspot of contaminated soils in the southwest corner of the site as well as excavation of the foundation trenches for the new buildings. SEC also supported the disposal of waste arisings generated by this work. It is however noted that remediation work remained to be completed further to SEC's initial involvement. The remedial work remaining to be completed and validated by others is as noted below:

Old Infilled Soakaway

The old infilled soakaway feature identified beneath the eastern side of the site, located in the proposed carpark remains to be remediated. The infill material inside the old soakaway was identified to contain asbestos impacted Made Ground and the old soakaway conflicts with the proposed attenuation tank to be installed at this location. As such it requires excavation and removal under the Watching Brief of an Environmental Consultant with management of potential health risks associated with asbestos (eg dust suppression, conduct of reassurance asbestos air monitoring and use of suitably trained operatives). The arisings will require appropriate disposal to a suitably licensed waste disposal facility as non-hazardous waste.

Residual Hotspot of Hydrocarbon Impacted Soil Adjacent to Flats 1 and 2

The remaining hydrocarbon impacted material beneath the floor of flat 2 requires mitigation. Options for this include:

- 1) Excavate and remove the remaining impacted material;
- 2) Leave the impacted material in-situ but install gas mitigation measures including a Hydrocarbon resistant membrane and update the Remedial Strategy with a Technical Addendum for prior Regulatory approval; or
- 3) Conduct a Detailed Quantitative Risk Assessment (DQRA) to establish site-specific remediation target values to inform the extent of remedial excavation.

Areas of Proposed Gardens

The areas of the proposed gardens have been excavated during the Watching Brief undertaken by SEC. however, the gardens have not been reinstated with a certified "clean" cover system yet and as such validation of the garden's reinstatement remains to be completed. Reinstatement will comprise the installation of a high visibility geotextile marker layer with overlying imported certified "clean" material to the specified cover system thickness. Prior to importation of topsoil / subsoil to site the supplier's chemical batch data should be provided to an Environmental Consultant for approval and the cover system should be validated by an Environmental Consultant by means of trial pits to confirm the following: the thickness of imported topsoil and subsoil provided is to the required minimum thicknesses,

a hi-visibility marker layer has been provided and that laboratory analysis of representative validation samples is undertaken to corroborate the initial batch supplier data. Validation samples should be recovered for laboratory analysis for a suite of determinands including asbestos, metals, speciated PAHs, organic matter, TPH, phenols and pH. The validation sample results should be compared to the Remedial Target Values as specified in the Remedial Method Statement (refer to Appendix A – Figure 4). All imported material delivery tickets should be retained.

In addition, any general imported material required for the proposed development (including aggregates) should be subject to the same chemical validation sampling analysis as the topsoil cover system requirements discussed above.

Proposed Car Park

The northeastern area of the site where the proposed car park is to be located is still yet to be developed, as such any arisings produced in the development of the car park should be appropriately disposed of to a suitably licensed waste management facility in accordance with current Environment Agency WM3 Guidance. All disposal tickets be retained and a Watching Brief be maintained by an Environmental Consultant during the development of the car park.

Ground Gas Risk Mitigation

The passively ventilated sub-floor void beneath the building has yet to be confirmed and verified. The design of the floor slab construction should therefore be provided to an Environmental Consultant and be included within the future Verification Report for the site.

Water Supply Pipe

The water supply pipe for the new development has also been yet to be confirmed and verified. The chemically resistant water supply pipe specification for the new development should be provided to an Environmental Consultant for approval and detailed within the future Verification Report.

Please note however, that should it be proposed to change the site use or layout, or should additional ground information be obtained, then at the earliest opportunity the potential risks should be re-appraised by a Geo-Environmental Consultant.

5.0 General Limitations and Exceptions

1. The advice given in this report with respect to contaminated land/pollution is based on the guidelines available at the time of writing and is subject to approval by the regulators.
2. The Client is advised that the conditions observed on site by SEC at the time of the investigation are subject to change. Certain indicators of the presence of hazardous substances may have been latent at the time of the most recent site reconnaissance, investigation or fieldwork and they may subsequently have become observable.
3. Comments made relating to land gas or groundwater conditions are based on observations made at the time of the investigation unless otherwise stated. The normal rate of conduct of an exploratory hole does not usually permit the recording of an equilibrium groundwater level for any one strike. Land gas and / or groundwater conditions may vary as a result of seasonal or other effects.
4. Ground contamination often exists as small discrete areas of contamination and there can be no certainty that any or all such areas have been located, sampled and/or identified. This is particularly significant for an investigation by boreholes as a relatively small sample of soil is extracted, which may not be entirely representative of the surrounding ground conditions.
5. The opinions expressed in this report are based on the ground conditions revealed by the site works, together with an assessment of the site and of laboratory test results. Whilst opinions may be expressed relating to sub-soil conditions in parts of the site not investigated, for example between or beyond borehole positions up to the site boundary, these are only for guidance only and no liability can be accepted for their accuracy.
6. This assessment may be subject to amendment in light of additional information becoming available.
7. The findings and opinions conveyed in this report are based on information obtained from a variety of sources, including that from 1) previous site investigations and 2) chemical testing laboratories, and which SEC has assumed are correct. Nevertheless, SEC cannot and does not guarantee the authenticity or reliability of the information it has relied upon. SEC can accept no responsibility for inaccuracies within the data supplied by other parties.
8. This report is written in the context of an agreed scope of work between SEC and the Client and should not be used in a different context. In light of additional information becoming available, improved practices and changes in legislation amendment or re-interpretation of the assessment or report in whole or part may be necessary after its original submission.
9. This report is provided for sole use by the Client and is confidential to them. No responsibility whatsoever for the contents of the report will be accepted to anyone other than the Client.
10. SEC believes that providing information about limitations is essential to help the Client identify and thereby manage risks.

11. The copyright of written materials supplied shall remain the property of SEC but with a royalty-free perpetual licence, granted to the Client on payment in full of any outstanding monies.
12. SEC does not provide legal advice and the advice of the Client's legal advisors may also be required.
13. The use of data generated by this site investigation for the design of foundations was outside the scope of this report.
14. SEC notes that this assessment is subject to regulatory review and approval.
15. This report represents a stage in an iterative process of investigation and assessment and as such it is possible that further work may be recommended.
16. An ecological, topographical or asbestos survey was outside of the scope of this report.

Appendix A

Figures

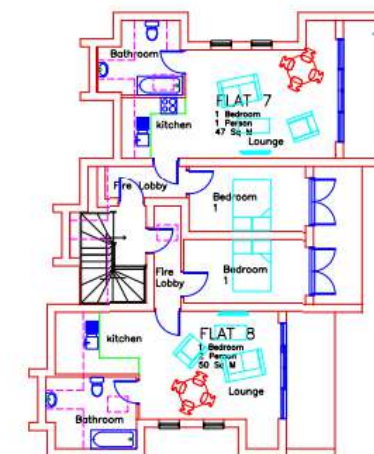


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This map is not to be relied upon for accuracy and is for identification purposes only

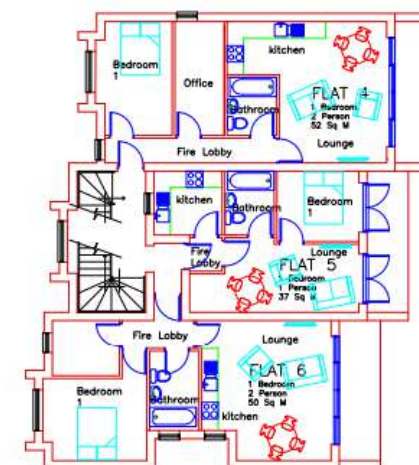
SITE: 81/81A Whinbush Road, Hitchin, SG5 1PZ	SCALE: NTS	JOB NO: 5551	 SEVENOAKS ENVIRONMENTAL CONSULTANCY
FIGURE TITLE: Site Location Plan	REV: 01	FIGURE NO: 1	



GROUND FLOOR PLAN



SECOND FLOOR PLAN



FIRST FLOOR PLAN

SITE: 81/81A Whinbush Road, Hitchin, SG5 1PZ

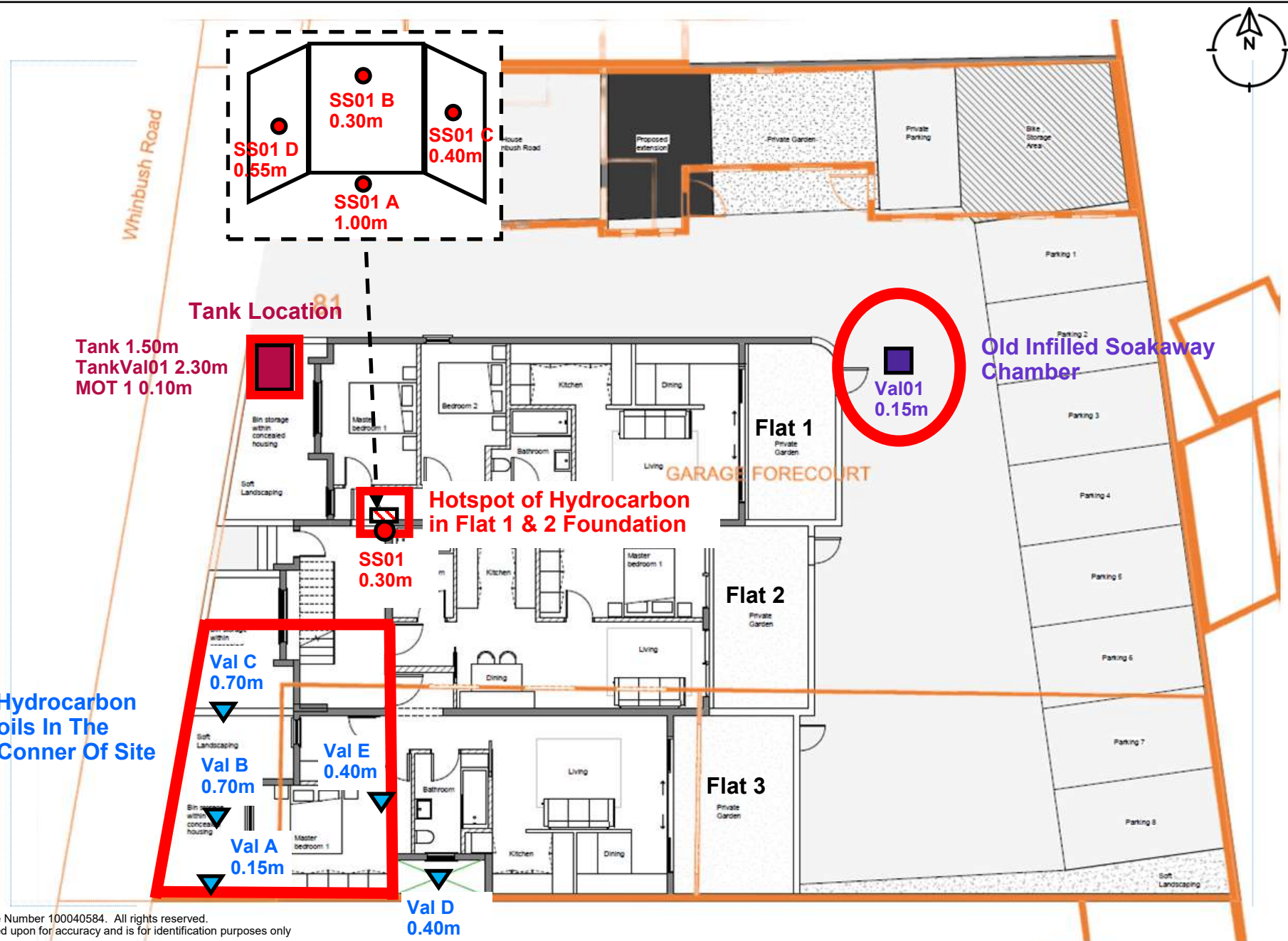
SCALE: NTS

JOB: 5551

FIGURE TITLE: Proposed Site Layout Plan

REV: 01

FIGURE NO: 02



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This map is not to be relied upon for accuracy and is for identification purposes only

SITE: 81/81A Whinbush Road, Hitchin, SG5 1PZ

SCALE: NTS

JOB NO: 5551



FIGURE TITLE: Watching Brief Sample Layout Plan

REV: 01

FIGURE NO: 1

Figure 4

Remedial Target Values for Remedial Excavation Validation & Imported Materials based upon a Residential End Use with Home Grown Produce (including consideration of phytotoxic contaminants in areas of proposed planting in addition to Human Health)

Chemical	Guidance Value in mg/kg	Guidance Criteria
Metals		
Arsenic	37	LQM / CIEH S4UL
Barium	-	-
W/S Boron	-	-
Boron	290	LQM / CIEH S4UL
Cadmium	11	LQM / CIEH S4UL
Chromium	910	LQM / CIEH S4UL
Chromium VI	6	LQM / CIEH S4UL
Copper (Human Health)	2400	LQM / CIEH S4UL
Copper (Phytotoxic - to be considered in areas of planting as well as Human Health Threshold)	130	Inhouse
Mercury	1.2	LQM / CIEH S4UL - Trigger for consideration of further elemental / inorganic / methylmercury analysis
Nickel (Human Health)	180	LQM / CIEH S4UL
Nickel (Phytotoxic - to be considered in areas of planting as well as Human Health Threshold)	70	Inhouse
Selenium	250	LQM / CIEH S4UL
Lead	190	C4SL
Zinc (Human Health)	3700	LQM / CIEH S4UL
Zinc (Phytotoxic - to be considered in areas of planting as well as Human Health Threshold)	300	Inhouse
Poly Aromatic Hydrocarbons (PAHs) (based on 1% SOM)		
Naphthalene	2.3	LQM / CIEH S4UL
Acenaphthylene	170	LQM / CIEH S4UL
Acenaphthene	210	LQM / CIEH S4UL
Fluorene	170	LQM / CIEH S4UL
Phenanthrene	95	LQM / CIEH S4UL
Anthracene	2400	LQM / CIEH S4UL
Fluoranthene	280	LQM / CIEH S4UL
Pyrene	620	LQM / CIEH S4UL
Benzo(a)anthracene	7.2	LQM / CIEH S4UL
Chrysene	15	LQM / CIEH S4UL
Benzo(b)fluoranthene	2.6	LQM / CIEH S4UL
Benzo(k)fluoranthene	77	LQM / CIEH S4UL
Benzo(a)pyrene	2.2	LQM / CIEH S4UL
Indeno(1,2,3-cd)pyrene	27	LQM / CIEH S4UL
Dibenz(a,h)anthracene	0.24	LQM / CIEH S4UL
Benzo(ghi)perylene	320	LQM / CIEH S4UL
Aromatic Hydrocarbons (based on 1% SOM)		
EC5-7	70	LQM / CIEH S4UL
EC>7-8	130	LQM / CIEH S4UL
EC>8-10	34	LQM / CIEH S4UL
EC>10-12	74	LQM / CIEH S4UL
EC>12-16	140	LQM / CIEH S4UL
EC>16-21	260	LQM / CIEH S4UL
EC>21-35	1100	LQM / CIEH S4UL
EC>35-44	1100	LQM / CIEH S4UL
Aliphatic Hydrocarbons (based on 1% SOM)		
EC5-6	42	LQM / CIEH S4UL
EC>6-8	100	LQM / CIEH S4UL
EC>8-10	27	LQM / CIEH S4UL
EC>10-12	130	LQM / CIEH S4UL
EC>12-16	1100	LQM / CIEH S4UL
EC>21-35	65000	LQM / CIEH S4UL
EC>35-44	65000	LQM / CIEH S4UL
Phenol (based on 1% SOM)		
Phenol	280	LQM / CIEH S4UL
Asbestos		
Asbestos Presence / Absence	Absence	-

Appendix B

Site Photos

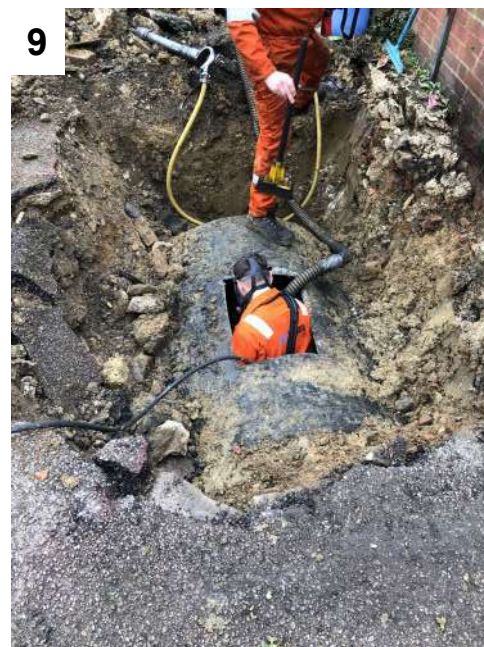


Photos 1 to 4 — View of the site predevelopment.





Photos 5, 6 & 7 — Excavation of the below ground fuel storage tank identified adjacent to the western site boundary



Photos 8, 9 & 10 — View the tank being opened, degassed and decommissioned.



Photos 11 to 16 — View the tank being removed, the resulting excavation, Validation samples from beneath the tank and of the backfill material; and the excavation being backfilled.





Photos 17 & 18 — View of validation sample for MOT (MOT 1 at 0.10m bgl).



Photos 19 & 20 — View of Flat 1 footing trenches on 30/01/2025 prior to Watching Brief.

21



22



Photos 21 & 22 — View of arising stockpiles entrained with tarmac observed on 30/01/2025 prior to SEC's commencement of the Watching Brief.

23



24



Photos 23 & 24 — View of concrete and tarmac arisings and foundation arisings on 06/02/2025 prior to SEC's commencement of the Watching Brief.

25



26



Photos 25 to 28 — View of the site on day 1 of the SEC's Watching Brief on 13/02/2025.

27



28



29



30



Photos 29 & 30 — Example of stockpile segregation during SEC's watching brief.

31



32



Photos 31 & 32 — Example of non-hazardous grab lorry disposal and waste disposal ticket.



Photos 33 to 35 — View of hazardous concrete disposal with associated disposal ticket and consignment note.



Photos 36 to 38 — View of hazardous soil disposal with associated disposal ticket and consignment note.

39



40



Photos 39 to 42 — Watching Brief conducted during the excavation foundations.

41



42



43



44



Photos 43 to 46 — View of the infilled soakaway feature identified to the western side of the site, the infill material and associated sampling - Val01.

45



46



47



48



Photos 47 to 50 — View of the excavation of the contaminated soils hotspot in the south west corner of the site

49



50



51



52



Photos 51 to 54 — View of the validation samples collected from the remedial excavation in the south west corner of the site

53



54





Photos 55 to 58 — View of the hydrocarbon stained material identified within the foundation trench between flats 1 and 2 with samples from that area SS01.



59



60



Photos 59 to 62 — View of the remedial excavation of the hydrocarbon impacted material identified within the foundation trench between flats 1 and 2 with validation samples SS01A to SS01D conducted.

61



62





Photos 63 & 64 — View of the pink MOT excavated where the former diesel tank used to be during the foundation excavation.



Photos 65 & 66 — View of concrete being poured into the footings with an MDF wood board covering the hydrocarbon stained area to help this material be excavated further later.

67



68



Photos 67 & 68 — View of some passive subfloor ventilation evidence observed during construction.

69



70



Photos 69 & 70 — View of the site on the last day of the Watching Brief conducted by SEC on 18/03/2025.

Appendix C

Discovery Strategy

DISCOVERY STRATEGY CONTAMINATED MATERIALS

SITE: 81/81A Whinbush Road, Hitchen, SG5 1PZ

INTRODUCTION

It is proposed to re-development the site with new residential properties at 81/81A Whinbush Road. The site will be undergoing ground contamination remedial work associated with Made Ground containing elevated concentrations of hydrocarbons and metals as discussed within the Remediation Method Statement. A Discovery Strategy is to be implemented on site to provide a protocol to follow in the event that previously unidentified potential ground contamination is encountered during redevelopment of the site.

Its purpose is to define the process to be undertaken on site in the event that previously unidentified ground or water contamination or suspicious objects (e.g. cement bonded asbestos sheeting fragments) are discovered during the redevelopment of the site. Should suspected evidence of contamination be identified then work should cease until additional separate assessment has been conducted by an Environmental Consultant. It is intended to be understood and followed by all on-site workers and for all new site workers to be made aware of the procedure.

HOW TO IDENTIFY POTENTIALLY CONTAMINATED MATERIAL

- Looks / colours – e.g black, purple, pink, grey oily or has an iridescent sheen
- Odours / smells – e.g. has an oil, fuel or solvent type of odour
- Man made fragments – e.g. paint or oil tins, cans or drums, car parts, bottles, glass, metal, rubber or rubbish fragments
- Ground contains foreign fragments of cement bonded (potential asbestos) sheeting, coal/coke, clinker, ash
- Subsurface structures / vessels, concrete or metal e.g. oil or asbestos filled pits or tanks, walls, metal pipes and sandbags

(N.B. These are examples only – This list is not exhaustive. If in any doubt then ask)

PROCEDURE

If during the redevelopment work, any visibly contaminated or odourous material is found to be present at the site, it must be investigated further, the Local Planning Authority must be informed of the nature and degree of contamination present and a method statement detailing how the unsuspected contamination shall be dealt with must be prepared and submitted to the Local Planning Authority for approval in writing before being implemented.

On the discovery of any suspicious material or buried structures during the redevelopment of the site, the following procedure should be followed:

- Site Personnel to immediately inform Client / Site Manager. Do not investigate it yourself.

- Client / Site Manager to inspect and confirm the observations of potentially contaminated material and inform Sevenoaks Environmental Consultancy Ltd. The area will be cordoned off and work will cease in the vicinity.
- Sevenoaks Environmental Consultancy Limited will attend site to inspect and sample the material in question for laboratory testing to evaluate if the material in question has been reported on previously and will attempt to quantify the extent and volume of any potential contamination if not.
- The Environmental Health Officer at the Council will then be notified if the material has not been reported on previously that potentially contaminated material has been discovered and will be forwarded the relevant laboratory data and a remedial strategy for their approval in the event that the material is to be classified as contaminated.

CONTACT DETAILS

Environmental Consultant:

Sevenoaks Environmental Consultancy Ltd.
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

Contact: Brendan Davis

Tel: 01892 822 999

Email: b.davis@sevenoaksenvironmental.com

Regulator:

North Herts Council
Gernon Road
Letchworth Garden City
SG6 3JF

Tel: 01462 474000

Client

Viva Property Group Ltd
19 York Rd
Northampton
NN1 5QC

Contact: Bimal Barchha

Tel: 01604 600 602

Email: bimal@thesmartmove.co.uk

DECLARATION

[illegible]

Appendix D

Below Ground Fuel Tank Storage Decommissioning

Appendix Di

Petroleum Officer Records

Application for a Licence

TO KEEP PETROLEUM SPIRIT (PETROL)

AT FILLING STATION, &c.

To the Council of the above-named

I hereby apply to the Council for a Licence [or, the Renewal of a Licence] to keep Petroleum Spirit (Petrol) [or Fuel or Diesel Oil] on the premises hereinafter described.

1. Full address and description of the premises for which licence is required. (A plan giving sufficient information to identify the site, positions of nearby buildings, etc., and details of the petroleum filling station should accompany this application.)	1. PARTICULARS. YARD WHINBUSH ROAD HITCHIN UNDERGROUND TANK. HAND PUMP OPERATED.
2. State whether any, and what, part of the premises (or of the building of which the premises form part, as the case may be) is, or is intended to be, inhabited.	2. NONE
3. Business or trade carried on, and nature of Goods (if any) usually kept in the premises within which the Petroleum Spirit (and Fuel or Diesel Oil) is proposed to be stored.	3. LORRY SHEDS.
4. Proposed mode of storing Petroleum Spirit. [State whether in 2 gallon cans, or drums, or barrels, underground tanks, or otherwise.]	4. UNDERGROUND TANK.
5. Maximum quantity of Petroleum Spirit (exclusive of petrol in tanks of motor vehicles present on premises) proposed to be kept in the premises at any one time. [If Fuel or Diesel Oil are to be kept in the store, specify kinds and quantities.]	5. 500 gallons.
6. Date of expiry and number of present or last previous licence (if any), and period now applied for.	6. 31/10/1973.
7. If remittance sent, state amount (for scale of fees, see back).	7. £2. 500 gallons.

Name of Applicant (in full) St. Martin's & Sons, Ltd.
 If applying as agent, &c., on behalf of a firm or company, state full particulars. George Edward Martin (Director)

Address St. Andrew's Whinbush Road
Hitchin
 Date 9/10/73 19

Signature of Applicant

Serial No.	
Registered	
Licence	

Notice to Applicant.—This Form, when filled up, should be sent to the Council at the following address :—
 Public Health Department,
 Broad Street, Hitchin.

MAX. QUANTITY KEPT		Telephone No.	Date of Licence	Renewed	Receipt No.	Writing Cert.
Tank	Store	Licencee	31/10/74	31.10.75	83307	
500		A MASTERS & SONS LTD				
		Address of Licencee (if different from below)				
		Is Petrol Sold to Public	Yes/No			
Type of Premises and Location of Store		WHINBUSH ROAD HITCHIN				
Remarks		700-8-10-12				

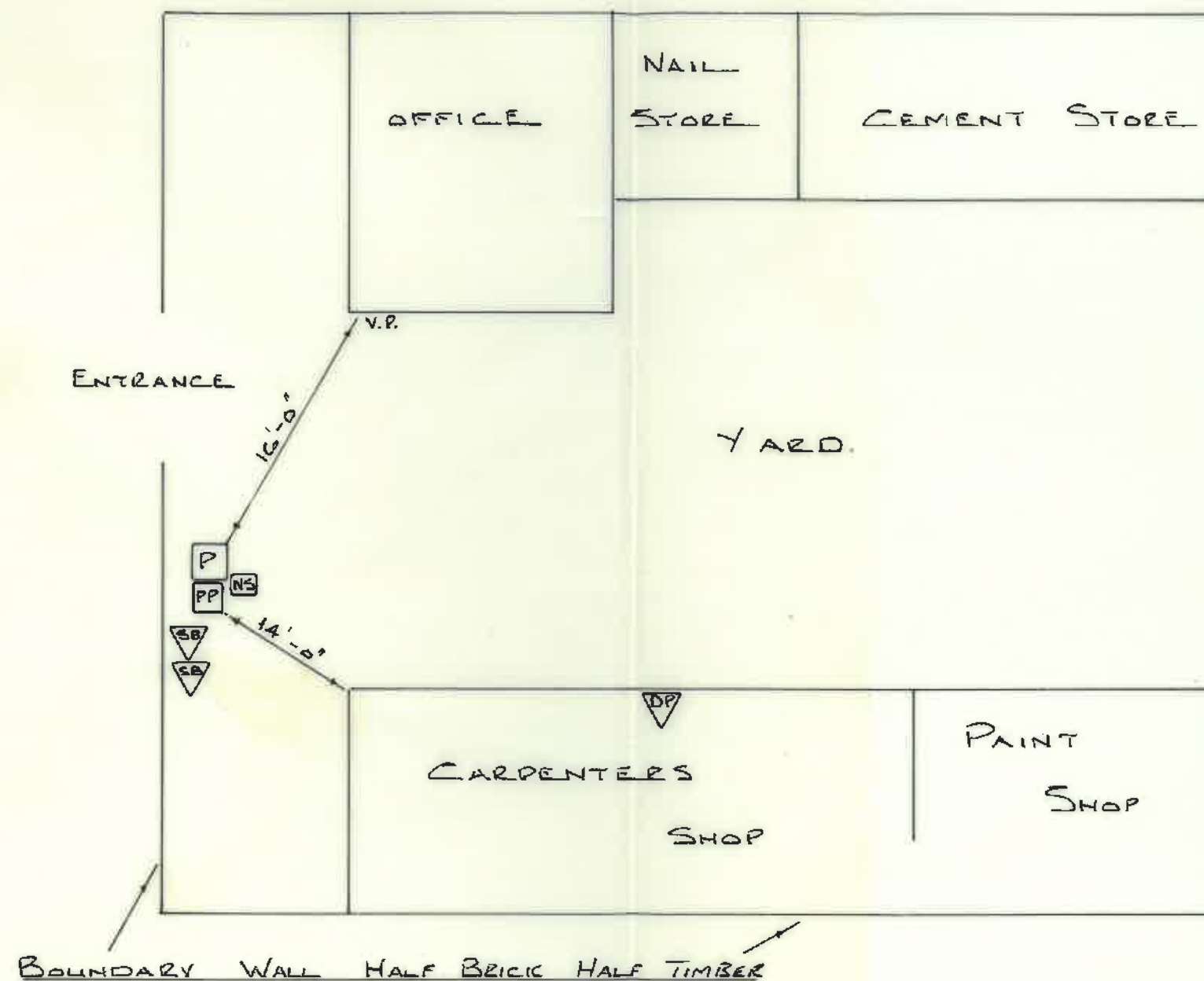
Kalamazoo
709669-511

TITLE BELOW
THIS LINE

WHINBUSH ROAD HITCHIN

A MASTERS & SONS LTD

19447



	2 GALLON FOAM EXTINGUISHER
	10 POUND DRY POWDER EXTINGUISHER
	SAND BUCKET
	PETROL PUMP
	DIESEL PUMP
	KEROSENE PUMP
	PETROL TANK MANHOLE CHAMBER & NUMBER
	DIESEL TANK
	KEROSENE TANK
	'NO SMOKING' NOTICES
	PETROILER
	PETROL INTERCEPTOR
	LINE OF CANOPY
	TANKER STANDING AREA
	VENT PIPES
	OFFSET FILL POINT
	ISOLATION SWITCH

HERTFORDSHIRE Fire Brigade

JONES & SWINDON
81, WHINBUSH ROAD,
HITCHIN.

DRAWN BY C.A.?

NOT TO SCALE

DATE:- 27. 8. '75

LICENCE NO. 19418

Carroll



Community Protection Directorate

Tobias Ing
Sevenoaks Environmental Consultancy Ltd
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

**Fire Protection
Regulatory Services**
Hertfordshire County Council
Room 346, Old Block, Postal Point CH0331
County Hall
Pegs Lane
Hertford, Herts SG13 8DQ

Telephone : 01707 292668
Email : lisa.waddingham@hertfordshire.gov.uk
Your ref :
My ref : SR 24068
Date : 19th October 2023

Dear Tobias,

REF: 81/81A Whinbush Road, Hitchin, SG5 1PZ

As requested, we have examined our files and are pleased to provide the following information.

Our records show that:

- 1) A Masters & Sons occupying site
- 2) 500 gallon tank
- 3) Jones & Swindon occupied the site and a site plan is attached

Please note that the details are correct according to our records. However, we cannot guarantee the accuracy of this information.

Yours sincerely,

Lisa Waddingham
Petroleum Officer
Enc.

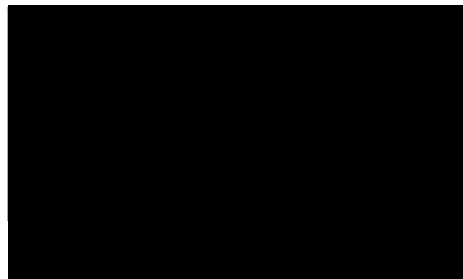
Appendix Dii

Tank Decommission Job Card

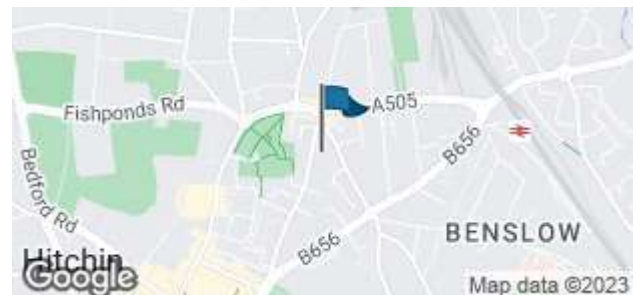


Customer	81 WHINBUSH RD	Resource	John Hinchliffe
Contact	Tobias Ing	Assisted by	James Wilson, Alex Leadbeater
Address	81 Whinbush Road Hitchin SG5 1PZ	Job type	Commercial Tank Removal - With CS
		Reference	61321
		Date	22/11/2023 08:00 - 16:00
Billing address	Sevenoaks Environmental Consultancy Ltd 145a Hastings Road Pembury TN2 4JU	Job duration	08:00:00
		Assistant Job duration	08:00:00

Notes Empty, clean and remove x1 no 4500L unleaded UST



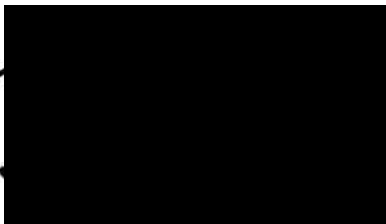
on Kane



001. Pre Start Checks		
	Answer	Notes
Have you signed in at site and attended induction if required?	Yes	
Have you located the fire muster point?	Yes	
How many engineers are on site?	Two	
1. RAMS confirmation signature	John Hinchliffe	



2. RAMS confirmation signature James Wilson



Are there any additional hazards not covered by your RAMS e.g. additional works not included?

No

Please take photo of work area upon arrival



Do you need a confined space permit?

Yes

01. Tank Decommissioning	
Answer	Notes

Picture of the site



1.2 Confined Space Permit

	Answer	Notes
Are all personnel involved trained in their respective roles for CS?	Yes	
Is there a suitable rescue plan in place?	Yes	
Please insert a photo of the gas monitor results for pre-entry?		
Is the required rescue equipment in place, suitable and in good condition?	Yes	
Support team in place, trained and aware of procedures for rescue?	Yes	
Entry point to confined space suitable and barriered if potential for fall from height?	Yes	

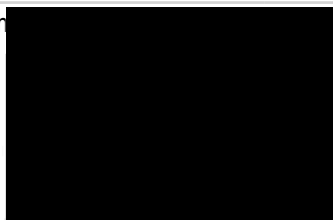
Any required lock off carried out? Yes

Suitable and if required ATEX lighting in place? Yes

Breathing apparatus in place, checked and in good order? Yes

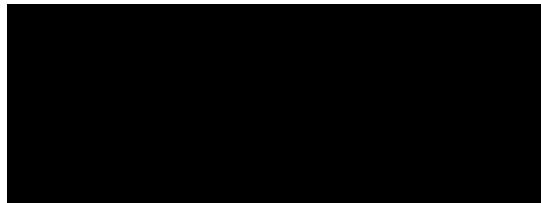
Person/s entering the space trained for confined space entry? Yes

Supervisor issuing the permit. John



Entrant 1

James Wilson

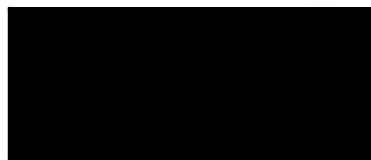


Is there a 2nd entrant

No

Supervisor cancellation.

John Hinchliffe



Entrant 1

James Wilson



Is there a 2nd entrant

No

WhatsApp Image 2023-11-22 at 14.44.29 (1)



WhatsApp Image 2023-11-22 at 14.44.29 (2)



WhatsApp Image 2023-11-22 at 14.44.29 (3)



WhatsApp Image 2023-11-22 at 14.44.29



WhatsApp Image 2023-11-22 at 14.44.30 (1)



WhatsApp Image 2023-11-22 at 14.44.31 (3)



WhatsApp Image 2023-11-22 at 14.44.32



WhatsApp Image 2023-11-22 at 14.44.30 (2)



WhatsApp Image 2023-11-22 at 14.44.30 (3)



WhatsApp Image 2023-11-22 at 14.44.31



WhatsApp Image 2023-11-22 at 14.44.31 (2)



WhatsApp Image 2023-11-22 at 14.44.31 (1)



WhatsApp Image 2023-11-22 at 14.44.30



Appendix Diii

Tank Decommission Method Statement



Document Ref:	MS-2023-231-Sevenoakes-hitchin-USTdecomission		
Author:	Jack Hartley		
Creation Date:	17/11/2023		
Client:	Sevenoakes remediation		
Title of works	UST Cleaning and Removal		
Works location:	81 Winbush Road, Hitchin, SG5 1PZ		
Date of works:	23/11/2023		
Duration:	2 days		
Personnel Involved:	John Hinchliffe	James Wilson	Ben Murrell
Training:	SPA Safety Passport - Petroleum	SPA Safety Passport - Petroleum	Site Safety Plus
	Confined space entry, BA & Rescue	Confined space entry, BA & Rescue	Confined space entry, BA & Rescue
All personnel will sign onto this document via the 'Bigchange' job management app. All required permits will be completed through the app.	CSCS Tank Installer Card	CSCS Green Card	CSCS Green Card
	ALLMI Lorry Loader	ALLMI Lorry Loader	Asbestos Awareness
	Emergency First Aid	Site Safety Plus	
	OFTEC 600A	OFTEC 600A	
	ADR	ADR	
	Asbestos Awareness	Asbestos Awareness	
		Alex Leadbeater	
		Asbestos Awareness	
		CSCS Green Card	
Supervisor:	John Hinchliffe		
Supervisor Contact:	07970114312		

Client Contact:	Tobias Ing - 01892 822 999
Nearest A&E	Lister Hospital East Hall Block, Lister Hospital, Coreys Mill Ln, Stevenage SG1 4AB
Brief Description of Works –	
The site contains a single compartment underground fuel storage tank believed to be in the region of 4500litres in capacity. The tank only contains residual dregs, however as no grade labels are present, it will be assumed that the tank is petrol until confirmed otherwise. The tank requires safe emptying, cleaning internally and then excavating from site for compliant disposal. The excavation should there be no contamination present will then be backfilled to make safe the area.	
Enabling Works	
Sevenoaks to ensure that a suitably sized area has been heras fenced in order to create a site compound.	
Sevenoaks to allow JWH Tanks operatives to use local welfare facilities.	
Sevenoaks to ensure that no impacting utilities are present within the proposed excavation area.	
Included Risk Assessments & Plans:	
RA002	Working in a tank manhole chamber
RA003	Opening an underground fuel tank
RA004	Manual Handling
RA009	Using tools and air operated equipment
RA007	Pumping of flammable liquids for disposal
RA010	Confined space entry – underground tanks
RA012	Using air operated chisels
RA019	Asbestos awareness
RA020	Excavating underground tanks
RA008	Traffic management
RP001	Rescue plan
Associated COSHH Assessments:	
COA001	Diesel
COA002	Petrol
COA004	Degreaser
Reference Documentation:	

APEA Manway Entry Guidance	
APEA/IP's Design, Construction, Modification, Maintenance and Decommissioning of Filling Stations, 4th Edition, Revised June 2018 (The "Blue Book").	
Health & Safety at Work Act 1974	
Management of Health & Safety at Work Regulations 1999	
Confined space regulations 1997	
HSG47 – Safe excavation	
Betts Geo Report - REPORT NO: 21WCH019/GI	
Utility Drawing Documents – 210211, 210205, 210223, 210224, 210226	
PPE Required & Standard – PPE Must be in good condition and should be checked by PIC to ensure quality.	
High Visibility Vest	Anti-Static to EN ISO 20471 Class 2 EN ISO 14116 INDEX 1 /12H/40 EN 1149-5
Overalls	Flame Retardant to BS/EN ISO 11611
Safety Boots	Oil Resistant / Anti-Static to EN ISO20345.2011
Safety Helmet	MSA Helmets to EN397
Ear Defenders	Approved to EN 352-2 Helmet Mounted
Nitrile Gloves	EN ISO 374-1:2016
Work Gloves	EN 388:2016 4.1.3.1.X
Eye Protection	Safety glasses to EN 166 1F
Safety Equipment Required	
Fire Extinguisher x 2	Foam
First Aid Kit	10 person first aid kit – eye wash phials
Warning Signs	Stating - Danger, No Entry, No Smoking positioned around temporary exclusion zone
Spill Kit	Min 20L
Calibrated Gas Monitor	MSA Altair XR4 with Pentane sensor carried by JWH Tanks
Pop up fence barriers	Skipper barriers
Cable detection	CAT scanner
Waste Information	

Licenses	Waste Carriers Number = CBDU93436 – Expires March 2025
Waste Management Info	J W Hinchliffe Ltd – Station 65133 – Weaver Street, Leeds, LS4 2AU
Expected Waste Generation	
Tank bottoms	To be consigned under a hazardous waste consignment note and transported to JWH Tanks waste transfer station for processing.
Interceptor waste	To be uplifted by CSG under a hazardous waste consignment note and transported to their own waste transfer station for processing.
Certification to be issue upon completion	
Completed works form	Signed by both parties on site
Hazardous waste note	Parts A – D completed on site and signed by both parties. Part E completed at final destination.
Certificate of decommissioning	Forwarded by JWH Tanks to client
Permits to be issued	
Confined space entry	Issued by JWH
Permit to dig	Issued by JWH
Potential hazards on site	
• Manual handling • Trip hazards • Other contractors and vehicles on site • General public • Vapour from tank/vent • Open manholes / excavations • Adverse weather conditions • Confined Spaces • Excavation Equipment	Control measures for the adjacent hazards can be found in the corresponding risk assessments and methodology within this document. This is not an exhaustive list and a dynamic risk assessment should be carried out prior to commencing any works.
Method of Works:	

Tank Emptying & Cleaning.

Day 1

1. A secure working area will be created around the tank farm area using fencing and warning signs.
2. A visual and atmospheric assessment of the manhole will be carried out to establish pipework configurations and available working space in line with the APEA manway operating guidance.
3. The check valves on the tank lids will be disconnected to enable any fuel in the dispensing lines to drain back into the tanks.
4. With the lines to the tanks now drained of fuel, any pipework will be disconnected using an air operated non sparking (copper beryllium) chisel. Any openings will be capped to ensure no vapours can enter the manway. With the same chisel tool, the bolts below will be split to enable the lid to be removed from the manhole chamber when required.
5. The tank has already been emptied of the majority of liquid but a small amount of liquid will remain offset of the striker plate. This liquid will be uplifted using an air operated pump in order to dispose of under a hazardous waste consignment note at JWH Tanks licensed waste transfer station. This process will be repeated on each tank until all fuel / water has been removed.
6. The tanks will be immediately force vented to reduce the LEL level below 10% in preparation for entry. During this time, JWH Tanks operatives will ensure that no other works are being conducted on site, and the perimeter of the exclusion zone will be patrolled. Anticipated venting duration will be approx. 10-15 minutes per tank.
7. Upon reaching a satisfactory LEL level and the receipt of a permit to enter, A JWH Tanks confined space operative can be made ready to enter the first tank for cleaning.
8. The tank will be scraped using a non-sparking scraper to remove any sludge from the sides. All residue will then be moved using a plastic squeegee to the manhole opening, where a vacuum controlled by the support team will extract any residues. The tank will then be washed down with a combination of degreaser and water and ragged dry.
9. Upon completion of cleaning, the operative will exit the tank, this is expected to take around 60 minutes.
10. Once the tank has been cleaned and final atmospheric readings have been obtained, a gas free certificate can be issued for a period of up to 24 hours.
11. The tanks will then be ready for excavation.

Tank Removal.

Day 1-2

1. Upon beginning works at the start of each day, atmospheric monitoring will be carried out in each tank, and new gas free certificates issued.
2. The works area will be cleared of all non-essential personnel and a cable detection scan carried out. If satisfactory, a permit to dig will be issued.
3. A JCB 3CX operated machine will begin to excavate the tank under the direct supervision of the JWH Tanks supervisor. The tank will be removed whole, by excavating down a single side and both ends, allowing the first tank to be rolled or lifted out. The tanks will be approx. 2500 x 1000 and will weigh approx. 1000kgs in total. Once free from the ground, the tank will be lifted from the excavation by the excavator, and loaded directly onto a wagon for transport and disposal.
4. Once the tank excavation works have been completed, the ground will be backfilled with Recycled type 1 stone to make safe the area. If any contamination is found to be present within the excavation, works will stop and the client informed.
5. Once the backfill has been completed, the site will be tidied, plant removed and JWH will demobilise.

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Working in a chamber less than 750mm deep									
Ref: RA002					Last Review Date: 13/09/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Lifting manhole lid and working on tank lid in a manhole. Refer to APEA guidance notes for working in chambers.	Manual handling. Slips, trips and falls. Flammable vapours.	3	3	9	- Fencing to be erected and monitored to ensure an exclusion zone around the tanks. - Warning signs and extinguishers to be present. - Suitable manhole keys to be used to lift. - Ensure correct manual handling techniques. - Chamber lid to be replaced whenever it is not in use. - Area never left unattended. - Exclusion zone to be set up and monitored - All sources of ignition to be removed from exclusion zone. - Chamber to be left to vent naturally for 5 minutes and a zero LEL reading to be achieved prior to any work commencing in a chamber. - No operative to work upside down in a tank chamber. - Non sparking tools to be used when working on petrol tanks prior to cleaning process. - Minimum PPE of rubber gloves and overalls to be worn. - Good housekeeping to be practiced around the site.							3	1	3
Further Notes:														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Opening an underground tank									
Ref: RA003					Last Review Date: 13/09/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Opening and working near an open underground fuel tank.	Slips, trips and falls. Flammable vapours.	4	4	16	- Fencing to be erected and monitored to ensure an exclusion zone around the tanks. - Warning signs and extinguishers to be present and visible. - Chamber lid to be replaced whenever the tank is not in use. - Area never left unattended. - All sources of ignition to be removed from exclusion zone. - Conduct atmospheric monitoring in tank once liquid has been removed. - Carry out force venting as required subject to LEL results. - Wind sock to be erected to determine dissipation direction and to ensure that personnel and hazards are up wind whilst venting is in progress. - If the wind is directing any vapours into an occupied area, venting will take place in stages with atmospheric monitoring in place to ensure vapours are not concentrated. - Atmospheric monitoring to be carried out by trained individuals only. - Non sparking tools to be used when working on petrol tanks prior to cleaning process.							4	1	4
Further Notes:														
DO NOT ENTER THE TANK UNTIL A PERMIT HAS BEEN ISSUED.														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Manual Handling									
Ref: RA004					Last Review Date: 17/06/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Manual Handling of heavy objects such as tank lids and tools.	Excess weight from heavy or uneven objects. Slips, trips and falls.	3	3	9	• HSE leaflet INDG143 available for additional reading. • Support always on hand for heavy loads. • Objects for single person carrying to weigh no more than 25kgs. • Carry out TILE assessment for larger loads. • Lifting aids such as manhole keys to be used. • Minimum P.P.E requirements of gloves, steel toe boots for all tasks. • Good housekeeping to be practiced in work area to minimise risk of slips, trips and falls.							3	1	3
Further Notes:														
Tile = Task, Individual, Load, Environment Think – Can manual handling be eliminated?														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Driving and the transportation of hazardous goods								
Ref: RA005					Last Review Date: 13/06/2022								
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible		
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely		
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible		
Task	Hazard (s)	S	L	RR	Control Measures						S	L	RR
Driving vehicles and transporting hazardous goods	Load. Roads and other users. Fatigue. Distractions. Vehicle condition	4	2	8	- Hazardous materials not to be carried on the same load as any sources of ignition. - Equipment as per ADR rules and instructions in writing to be carried. - IBC's to be checked for suitability and condition prior to travel and after rest breaks. - Driver to have ADR qualification when required and adhere to legislation set out in ADR training. - Driver to ensure that the load is secure prior to setting off and after rest stops. - Current consignment note to be in place with safety data sheet available. - Driver to ensure that tachographs are current and working time directives are adhered to. - Sufficient rest breaks must be taken and additional drivers supplied for long distance driving. - No mobile phones, sat nav or maps to be used whilst vehicle is in motion. - No eating or drinking whilst vehicle is in motion. - Major road networks to be used whenever possible when transporting hazardous goods. - Driving at night, during severe weather and at peak times to be avoided where possible. - Vehicle defect check to be conducted prior to commencing journey. Any defects to be reported immediately and appropriate action taken.						4	1	4
Further Notes:													

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Pumping flammable liquids									
Ref: RA007					Last Review Date: 17/010/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Pumping of flammable liquids using air operated pump.	Spillage from pump or pipes. Injury from airline failure. Noise from compressor. Fire or explosion from vapour.	4	3	12	• Pipes, pump and fittings are checked before each use. • Spill kit to be stored near pump and dispensing point during operations. • Pump and pipework never left unattended. • Ensure receiving vessel is in good order prior to pumping. • Cam lock fittings to be tied off prior to commencing pumping. • Whip ties to be used on air lines at all times along with visual checks to ensure quality of pipes. • Hearing protection to be worn if compressor is within 5 metres for more than 1 hour. 94 dB • Hazard warning signs and foam fire extinguishers present throughout the duration of the pumping process. • 5 metre exclusion zone set up and monitored using pop up barriers. • No plant operation allowed in vicinity whilst pumping petrol. • Suitable method of measuring wind direction present to ensure operatives upwind of vapours. • Calibrated gas monitor to test atmospheric conditions whilst pumping petrol. • Pump to be earthed prior to pumping petrol.							4	1	4
Further Notes:														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Traffic management and vehicle movements within Century Mill									
Ref: RA008					Last Review Date: 12/04/2023									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Operating on site near vehicles and plant.	Moving vehicles and plant	4	3	12	• All JWH workers to receive a toolbox talk / induction from WH on arrival. • All JWH workers made aware of the scale of vehicle movements to be undertaken in the works area and the dangers present. • All JWH workers are aware of and adhere to site rules. • All JWH workers to wear high visibility vests, hard hat and safety boots whilst on site. • Safe working area to be established using fencing or barriers prior to commencing works. • No vehicles are to be used unless the required license is held. • Site speeds limits to be clarified in site induction. • Hazard warning lights to be used whilst driving on site. • No reversing without an assistant.							4	1	4
Further Notes:														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Using tools, electrical and air equipment									
Ref: RA009					Last Review Date: 16/11/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Using manual hand, air operated or electrical hand tools.	Injury from misuse. Electric shock from damaged equipment.	4	2	8	- JWH personnel only to use electrical equipment supplied by JWH Tanks. - Operative must be competent in the use of any tool prior to use. - All electrical equipment to be 110 volt. - All electrical equipment to have a valid PAT test certificate – 6 monthly for tools. - All equipment to be suitable for the task in hand – if in doubt always ask your supervisor. - All equipment to be visually checked before use. - Any defects to be reported to the site supervisor and equipment taken out of use. - Air operated equipment to have whip ties attached prior to use. - Compressor to be within service intervals as per manufacturer recommendations. - Electrical equipment only to be used on tanks under a gas free certificate, unless valid atex certificate is present.							4	1	4
Further Notes:														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Confined Space Entry – Underground Tank – Single Person Entry									
Ref: RA010					Last Review Date: 12/09/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Entering a confined space underground	Increase in LEL (<i>lower explosive limit</i>) in confined space. Asphyxiation Fire	4	4	16	• Confined space permit obtained and suitable rescue plan in place prior to entry. • Tank cleaner and support team all trained in confined space entry. (certs available) • Tank force vented before operative enters to ensure LEL level below 10%. • Tank cleaner to wear full bottle-fed BA gear, harness with lifeline, flameproof overalls, toe protected wellingtons and plastic gloves. • Atmospheric monitoring by support team prior, during and post operations using a calibrated monitor. • Tripod and winch to remain attached to the cleaner for emergency removal. • Support team to control lifeline and airline to enable operative to be removed from tank. • 10 minute escape set to be available should Full BA fail. • An operative will always be available for the sole purpose of obtaining emergency assistance if required. • If LEL levels rise above 10%, the operative is removed from the tank and the tank is force vented to regain previous reading before re-entry is permitted. • Exclusion zone to be set up and monitored. • All sources of ignition to be removed from exclusion zone. • Air supply fitted with 1 hour warning signal, operative to be removed from tank and new supply fitted if signal sounds.							4	1	4
Further Notes: Non sparking scraper to be used in all petrol tanks.														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Using air operated chisels									
Ref: RA012					Last Review Date: 13/11/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Using an air operated chisel. (This tool has a HAV rating of 14.5 m/s)	High levels of noise. Exposure to vibration. Sparks from metal leading to fire or explosion. Impact from airline failure.	4	3	12	• Ear defenders to be worn by all operatives at all times whilst using air chisels. • Noise exclusion zone to be monitored by JWH personnel. (Minimum of 5 metres) • Leather gauntlet gloves to be worn. • Use limited to no more than 14 minutes in a one-hour period total not exceeding 57 minutes during a working day. • Non sparking chisels to be used in any area deemed to be Zone 0 or Zone 1 by J W Hinchliffe (Tanks) Ltd. • Atmospheric monitoring to remain in place whilst tools are in use and L.E.L to remain below 10%. • Compressor to be placed down wind of any open tank that may produce vapours. • Airlines to be checked for quality prior to use. • Whip ties to be attached to both ends of the line. • Eye protection to be worn at all times. • Compressor to be switched off and tool drained of air prior to replacing chisel. This must never be carried out whilst tool is live.							4	1	4
Further Notes: Vibration: EAV – Exposure Action Value – if task may reach 14 minutes, changes need to be made to reduce level of use. ELV – Exposure Limit Value – 57 minutes. Works must stop if this limit is reached in any day. See HAV’s calculator for details.														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Asbestos Awareness									
Ref: RA019					Last Review Date: 16/11/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Working in any area that could contain ACM's (Asbestos containing materials)	Demolition / dismantling leading to a release of fibres from any ACM	4	3	12	- Ensure that all JWH Tanks employees have undergone asbestos awareness training. This should be renewed annually and kept in date. - Before starting work in any building, ask to see the asbestos register in order to highlight the presences of any ACM's. - Ensure that an asbestos survey has been carried out by a licensed contractor before starting any dismantling works, particularly in boiler houses and tank rooms. - If an asbestos register is not available, any surfaces must be suspected of containing ACM's unless you are certain otherwise. If you are unsure, have the area surveyed by an asbestos contractor. - JWH Tanks employees must not disturb any surfaces / objects suspected of containing asbestos under any circumstances. - If you unsure at any point that ACM's could be or have been impacted by a work process, STOP immediately, isolate the area and inform the JWH Tanks supervisor. - If asbestos work is being carried out in a work area, do not enter unless specifically told it is safe to do so by either the JWH Tanks supervisor or the asbestos contractor.							4	1	4
Further Notes:														

J W Hinchliffe (Tanks) Ltd					Risk Assessment Title: Removing tanks from excavation									
Ref: RA020					Last Review Date: 13/11/2022									
Hazard Severity = S					4 = Very Severe		3 = Severe		2 = Minor		1 = Negligible			
Likelihood = L					4 = Highly Likely		3 = Likely		2 = Unlikely		1 = Highly Unlikely			
Risk Rating = RR (S x L = RR)					13-16 = Unacceptable		8-12 = Unacceptable		5-7 = Acceptable		1-4 = Negligible			
Task	Hazard (s)	S	L	RR	Control Measures							S	L	RR
Working near an open excavation.	Open and deep excavations Removing tanks using excavator or lorry mounted crane.	4	3	12	• Deep excavation signs to be displayed at all times. • When un-attended the excavation must be fenced off. • Only open areas of the fencing that are absolutely necessary for the works. • Care must be taken whilst walking around areas with open excavations. • Entry to the excavation is not permitted unless suitable shoring has been installed. • Ensure all sides of the excavation are graded suitably or shored to prevent collapse. • Designated watcher to ensure area is safe at all times if person is in the excavation. • Atmospheric test to be successful prior to excavating or cutting and gas free certificate issued. • Minimum site PPE to be worn at all times. • Exclusion zone to be set up and monitored around swing radius of machine. • Lifting equipment with a valid test certificate to be used with visual inspections carried out prior to use.							4	1	4
Further Notes:														

J W Hinchliffe (Tanks) Ltd		Rescue Plan: Underground Tank Entry		
Ref: RP001		Last Review Date: 12/04/2023		
Situation		1 x 4500 litre UST requires cleaning internally of residues		
Anticipated Duration		45- 60 minutes per tank		
Access		Access into the tank gained via the manhole present which is approx. 800mm in diameter. The tanks are approx. 2500 diameter and 1000 long. Access gained via wooden ladder to prevent static build up.		
Communication		The support team will have visual contact with the tank cleaner for the majority of the task. Any movement out of sight will be for very short durations, during which time the team will monitor the operative's lifeline.		
Atmosphere		The tanks have recently contained petrol and diesel. An LEL level of 10% or below will be maintained throughout the duration of the task. Any rise in LEL will result in force venting being carried out as required.		
Method of Rescue	Equipment Required	Additional PPE for Entrant	Support Team – Minimum 2	Emergency Services
Vertical Pull	Tank cleaner to wear body harness and lifeline attached to tripod and winch.	• Full face bottle fed BA • Safety Wellingtons • Flamguard Overalls • Rubber gloves	• To wear PPE as required by site rules. • Minimum 1 member to be confined space trained. • Additional operative to be present for the purpose of contacting emergency services.	Dial 999 or 112 for emergency services.
Further Notes: Spare 10 minute escape set to be available in case of BA failure.				

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Substance Information * MUST BE ACCOMPANIED BY A MATERIAL SAFETY DATA SHEET								
Name of Substance*			Diesel					
								Other (state) ☐
Explosive	Oxidiser	Flammable X	Toxic	Harmful / irritant X	Serious health hazard X	Corrosive	Dangerous for the environment X	
Active Constituents		Ethyl Benzene, Naphthalene						
Who will encounter it:		Operative when dismantling items such as check valves						
Level of exposure:		Low						
Volume/Concentration:		Minimal contact with fumes or product when control measures in place.						
Exposure Type		Health Effects			First Aid Measures			
Eye Contact		Irritant on contact			Immediately wash with fresh water from min 15 minutes, seek medical advice if persists.			
Skin Contact		Irritant if prolonged contact.			Remove contaminated clothing, wash thoroughly with soapy water, seek medical advice if persists.			
Inhalation		Prolonged exposure can cause irritation of respiratory tract.			Remove to fresh air. Seek medical assistance if breathing becomes difficult.			
Ingestion		Harmful if swallowed, possible aspiration into lungs on vomiting.			DO NOT INDUCE VOMITING, if unconscious place in recovery position and protect airway. Seek medical help immediately.			
Environmental		Harmful to the environment if spillage occurs			Deploy spill response kits, block local drains, inform relevant authorities.			
Control Measures, Monitoring and Emergency Procedures								
Personal Protective Equipment (PPE)		Gloves (Plastic)	X	Eye Protection	X	Face shield		
		Overalls	X	Full Face B.A Gear (In enclosed space)		Safety Wellingtons (During tank cleaning)		
Hygiene requirements		Wash hands on completion.			Training / Awareness		CoSHH awareness & Spill Response.	
Monitoring		Monitor Exposure		Health Surveillance	X	None		
Work environment		Restricted Access		Good Ventilation	X	Other		
Storage		Store in a cool, well ventilated area in an approved container, keep away from ignition sources.						
Disposal		Treat all associated materials as flammable, dispose of in accordance with current waste disposal legislation.						
Spill control and clean up		Deploy spill kits to soak up excess liquid, ventilate area if enclosed, inform management and authorities if required.						
Fire fighting		Flammable? Yes	Fumes Released? Yes	Extinguisher types to be used: Foam / Powder / CO2				
Based on the above criteria and full implementation of all specified controls, monitoring and emergency measures, the risk to health is assessed as:					LOW X	MED ☐	HIGH ☐	

Substance Information * MUST BE ACCOMPANIED BY A MATERIAL SAFETY DATA SHEET									
Name of Substance*			Petroleum Spirit						
								Other (state) ☐	
Explosive		Oxidiser	Flammable X	Toxic X	Harmful / irritant	Serious health hazard	Corrosive	Dangerous for the environment X	
Active Constituents			Benzene, Paraffins, Napthlenes, Aromatic and Olefinic Hydrocarbons, Lead						
Who will encounter it:			Operatives dismantling items such as check valves / tank cleaner						
Level of exposure:			Low						
Volume/Concentration:			Minimal contact with fumes or product when control measures in place.						
Exposure Type			Health Effects			First Aid Measures			
Eye Contact			Irritant on contact			Immediately wash with fresh water from min 15 minutes, seek medical advice if persists.			
Skin Contact			Irritant if prolonged contact.			Remove contaminated clothing, wash thoroughly with soapy water, seek medical advice if persists.			
Inhalation			Dizziness on mild exposure, can cause asphyxiation if prolonged.			Remove to fresh air, administer artificial respiration if breathing stops. Seek immediate medical help.			
Ingestion			Harmful if swallowed, possible aspiration into lungs on vomiting.			DO NOT INDUCE VOMITING, if unconscious place in recovery position and protect airway. Seek medical help immediately.			
Environmental			Harmful to the environment if spillage occurs			Deploy spill response kits, block local drains, inform relevant authorities.			
Control Measures, Monitoring and Emergency Procedures									
Personal Protective Equipment (PPE)			Gloves (Gaunlets)	X	Eye Protection	X	Face shield		
			Overalls / chemsuit	X	Full Face B.A Gear (In enclosed space)	X	Safety Wellingtons (During tank cleaning)	X	
Hygiene requirements			Wash hands on completion.			Training / Awareness		CoSHH awareness & Spill Response.	
Monitoring			Monitor Exposure			Health Surveillance	X	None	
Work environment			Restricted Access		X	Good Ventilation	X	Other	
Storage			Store in a cool, well ventilated area in an approved container						
Disposal			Treat all associated materials as highly flammable, dispose of in accordance with current waste disposal legislation.						
Spill control and clean up			Deploy spill kits to soak up excess liquid, ventilate area if enclosed, inform management and authorities if required. Follow JWH spill response plan if large scale spillage.						
Fire fighting			Flammable? Yes	Fumes Released? Yes	Extinguisher types to be used: Foam / Powder / CO2				
Based on the above criteria and full implementation of all specified controls, monitoring and emergency measures, the risk to health is assessed as:						LOW	MED X	HIGH	

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Substance Information * MUST BE ACCOMPANIED BY A MATERIAL SAFETY DATA SHEET								
Name of Substance*			Degreaser					
								Other (state) ☐
Explosive	Oxidiser	Flammable X	Toxic	Harmful / irritant X	Serious health hazard	Corrosive	Dangerous for the environment X	
Active Constituents		Kerosene Distillates >90%						
Who will encounter it:		Tank cleaner and support team						
Level of exposure:		Low						
Volume/Concentration:		Minimal contact with fumes or product when control measures in place.						
Exposure Type		Health Effects			First Aid Measures			
Eye Contact		Irritant on contact			Immediately wash with fresh water from min 15 minutes, seek medical advice if persists.			
Skin Contact		Irritant if prolonged contact.			Remove contaminated clothing, wash thoroughly with soapy water, seek medical advice if persists.			
Inhalation		Dizziness on mild exposure, can cause nausea and vomiting			Remove to fresh air, administer artificial respiration if breathing stops. Seek immediate medical help.			
Ingestion		Harmful if swallowed, possible nervous system damage, irritant to respiratory system			DO NOT INDUCE VOMITING, if unconscious place in recovery position and protect airway. Seek medical help immediately.			
Environmental		Harmful to the environment if spillage occurs			Deploy spill response kits, block local drains, inform relevant authorities.			
Control Measures, Monitoring and Emergency Procedures								
Personal Protective Equipment (PPE)		Gloves (Plastic)	X	Eye Protection	X	Face shield		
		Overalls	X	Full Face B.A Gear (In enclosed space)	X	Safety Wellingtons (During tank cleaning)	X	
Hygiene requirements		Wash hands on completion.		Training / Awareness		CoSHH awareness & Spill Response.		
Monitoring		Monitor Exposure		Health Surveillance		X	None	
Work environment		Restricted Access		Good Ventilation		X	Other	
Storage		Store in a cool, well ventilated area in an approved container, keep away from ignition sources.						
Disposal		Treat all associated materials as flammable, dispose of in accordance with current waste disposal legislation.						
Spill control and clean up		Deploy spill kits to soak up excess liquid, ventilate area if enclosed, inform management and authorities if required.						
Fire fighting		Flammable? Yes	Fumes Released? Yes	Extinguisher types to be used: Foam / Powder / CO2				
Based on the above criteria and full implementation of all specified controls, monitoring and emergency measures, the risk to health is assessed as:						LOW X	MED ☐	HIGH ☐

Appendix Div

Tank Validation Laboratory Results



Damian Jones
Sevenoaks Environmental Consultancy Ltd
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-14552

Site Reference: Whinbush Further SI

Project / Job Ref: 5551

Order No: 5551

Sample Receipt Date: 28/11/2023

Sample Scheduled Date: 28/11/2023

Report Issue Number: 2

Reporting Date: 07/02/2024

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.
This report supersedes 23-14552, issue no.1.

Reason for Re-Issue:
Split Report

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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Tel : 01622 850410



Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 23-14552	Date Sampled	22/11/23	22/11/23			
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Whinbush Further SI	TP / BH No	Tank	Tank Val 01			
Project / Job Ref: 5551	Additional Refs	MG	NAT			
Order No: 5551	Depth (m)	1.50	2.30			
Reporting Date: 07/02/2024	DETS Sample No	687494	687495			

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3			
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	< 3			
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	< 10			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	< 21			
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3	< 3			
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10	< 10			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21	< 21			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	< 42	< 42			



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Soil Analysis Certificate - BTEX / MTBE					
DETS Report No: 23-14552	Date Sampled	22/11/23	22/11/23		
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied		
Site Reference: Whinbush Further SI	TP / BH No	Tank	Tank Val 01		
Project / Job Ref: 5551	Additional Refs	MG	NAT		
Order No: 5551	Depth (m)	1.50	2.30		
Reporting Date: 07/02/2024	DETS Sample No	687494	687495		

Determinand	Unit	RL	Accreditation				
Benzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2		
Toluene : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5		
Ethylbenzene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2		
p & m-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2		
o-xylene : HS 1D MS	ug/kg	< 2	MCERTS	< 2	< 2		
MTBE : HS 1D MS	ug/kg	< 5	MCERTS	< 5	< 5		



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Soil Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 23-14552	Date Sampled	22/11/23	22/11/23			
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Whinbush Further SI	TP / BH No	Tank	Tank Val 01			
Project / Job Ref: 5551	Additional Refs	MG	NAT			
Order No: 5551	Depth (m)	1.50	2.30			
Reporting Date: 07/02/2024	DETS Sample No	687494	687495			

Determinand	Unit	RL	Accreditation			
Dichlorodifluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	
Vinyl Chloride	ug/kg	< 5	MCERTS	< 5	< 5	
Chloromethane	ug/kg	< 10	MCERTS	< 10	< 10	
Chloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
Bromomethane	ug/kg	< 10	MCERTS	< 10	< 10	
Trichlorofluoromethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,1-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	
trans-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
1,1-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
cis-1,2-Dichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
2,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	
Chloroform	ug/kg	< 5	MCERTS	< 5	< 5	
Bromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,1,1-Trichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,1-Dichloropropene	ug/kg	< 10	MCERTS	< 10	< 10	
Carbon Tetrachloride	ug/kg	< 5	MCERTS	< 5	< 5	
1,2-Dichloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	
1,2-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	
Trichloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
Bromodichloromethane	ug/kg	< 5	MCERTS	< 5	< 5	
Dibromomethane	ug/kg	< 5	MCERTS	< 5	< 5	
TAME	ug/kg	< 5	MCERTS	< 5	< 5	
cis-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	
trans-1,3-Dichloropropene	ug/kg	< 5	MCERTS	< 5	< 5	
1,1,2-Trichloroethane	ug/kg	< 10	MCERTS	< 10	< 10	
1,3-Dichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	
Tetrachloroethene	ug/kg	< 5	MCERTS	< 5	< 5	
Dibromochloromethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,2-Dibromoethane	ug/kg	< 5	MCERTS	< 5	< 5	
Chlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,1,1,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
Ethyl Benzene	ug/kg	< 2	MCERTS	< 2	< 2	
m,p-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	
o-Xylene	ug/kg	< 2	MCERTS	< 2	< 2	
Styrene	ug/kg	< 5	MCERTS	< 5	< 5	
Bromoform	ug/kg	< 10	MCERTS	< 10	< 10	
Isopropylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,1,2,2-Tetrachloroethane	ug/kg	< 5	MCERTS	< 5	< 5	
1,2,3-Trichloropropane	ug/kg	< 5	MCERTS	< 5	< 5	
n-Propylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
Bromobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
2-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	
1,3,5-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
4-Chlorotoluene	ug/kg	< 5	MCERTS	< 5	< 5	
tert-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,2,4-Trimethylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
sec-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
p-Isopropyltoluene	ug/kg	< 5	MCERTS	< 5	< 5	
1,3-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,4-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
n-Butylbenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,2-Dichlorobenzene	ug/kg	< 5	MCERTS	< 5	< 5	
1,2-Dibromo-3-chloropropane	ug/kg	< 10	MCERTS	< 10	< 10	
Hexachlorobutadiene	ug/kg	< 5	MCERTS	< 5	< 5	



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 23-14552	
Sevenoaks Environmental Consultancy Ltd	
Site Reference: Whinbush Further SI	
Project / Job Ref: 5551	
Order No: 5551	
Reporting Date: 07/02/2024	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
687494	Tank	MG	1.50	19.2	Brown sandy clay with stones
687495	Tank Val 01	NAT	2.30	13.8	Brown sandy clay with chalk

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 23-14552

Sevenoaks Environmental Consultancy Ltd

Site Reference: Whinbush Further SI

Project / Job Ref: 5551

Order No: 5551

Reporting Date: 07/02/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450°C	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (all: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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List of HWOL Acronyms and Operators	
DETS Report No: 23-14552	
Sevenoaks Environmental Consultancy Ltd	
Site Reference: Whinbush Further SI	
Project / Job Ref: 5551	
Order No: 5551	
Reporting Date: 07/02/2024	

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
-	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
Benzene - HS_1D_MS
EPH Texas (C10 - C12) - EH_1D_Total
EPH Texas (C12 - C16) - EH_1D_Total
EPH Texas (C16 - C21) - EH_1D_Total
EPH Texas (C21 - C40) - EH_1D_Total
EPH Texas (C6 - C40) - HS_1D_MS+EH_1D_Total
EPH Texas (C6 - C8) - HS_1D_MS_Total
EPH Texas (C8 - C10) - EH_1D_Total
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS

Appendix Dv

MOT Geotechnical Batch Data & Chemical Validation Results

Aggregate - Evaluation

Product designation: SHW 803 Type 1 0 / 32 OC75 Gp UF9 C90/3

Producer: Torr Quarry

Source: Limestone

Delivery / Sampling

Sampled/ tested

Sample No: SCOA/0112475

16/11/2023 08:15

Sampler: Tim Curtis

Sampling point:

Stockpile

Place of sampling: Quarry

Initiator

Torr Quarry

Weather: Rain

Project designation:

Type 1 Main pit

Comments

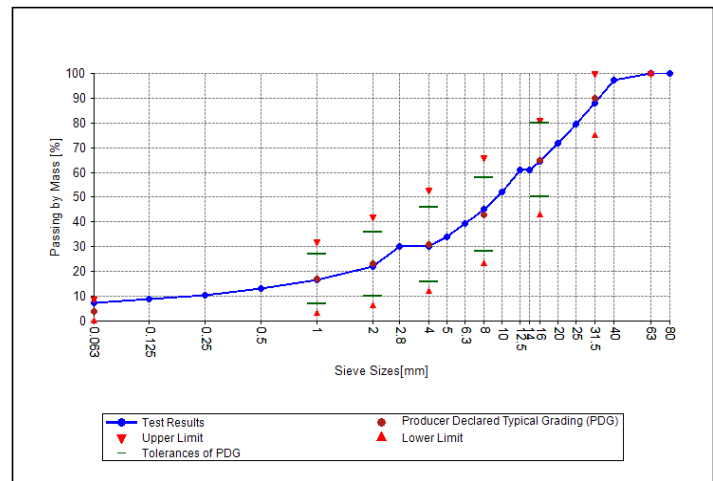
SAMPLE ANALYSIS

EN 933-1: Particle size distribution, Sieving method

Sieve size	Passing %	Specification limits	Complies?
63 mm	100	100 - 100	yes
31.5 mm	88	75 - 100	yes
16 mm	64	50 - 80	yes
8 mm	45	28 - 58	yes
4 mm	30	16 - 46	yes
2 mm	22	10 - 36	yes
1 mm	16	7 - 27	yes
0.063 mm	7.3	0.0 - 9.0	yes
Water content:	3.9	not specified	-
Uniformity coefficient	61.5	not specified	-
<i>Additional grading requirements:</i>			
passing 16.0mm - ret 8.0mm	19	7 to 30	yes
passing 8.0mm - ret 4.0mm	15	7 to 30	yes

Remark

Red aggregate



Somerset, 21/11/2023



Aggregates/Asphalt ATM

Aggregates/Asphalt ATM

Aggregate Industries Technical Department

Aggregate Specification Datasheet

Supply Plant: Torr Quarry
Specification: SHW: Series 800
Designation: Type 1 0/31,5 UF₉ OC₇₅

Sieve size (mm)	Percentage by Mass Passing				Specification Limits
	Overall Grading Range	Supplier Declared Value Range	Suppliers Declared Value	Typical Grading	
63	100	-	-	100	100
31,5	75 – 100	-	-	95	75 - 100
16	43 – 81	54 – 72	66	73	51 - 81
8	23 – 66	33 – 52	49	54	34 - 64
4	12 – 53	21 – 38	35	39	20 - 50
2	6 – 42	14 – 27	27	26	14 - 40
1	3 – 32	9 - 20	20	18	10 - 30
0,063	0 - 9	-	-	6.6	0 - 9
Additional Grading Requirements					
-16 / +8				20	7 - 30
-8 / +4				14	7 - 30

Requirements for Aggregates Used in Unbound Mixtures		
Material Properties	Reporting Value	Specification Requirement
Los Angeles Value	18	LA ₅₀
Micro Deval	16	M _{DE} NR
Magnesium Sulfate Soundness	11	MS ₃₅
Water Absorption	0.8%	WA ₂₄ NR
All Other BS EN 13242 Aggregate Requirements	-	Category _{NR}
Plasticity	Non-plastic	Non-plastic

Limitations to Use		
Water-Soluble Sulphate BS EN 1744-1, Clause 10	< 50mg/l	< 1500mg/l (SO ₄)
Total Sulfur BS EN 1744-1, Clause 11	0.10%	< 1%
Aggregate Type BS EN 932-3, BS EN 13242 Annex A	Limestone	Limestone, Chalk, Dolomite, Blast Furnace Slag, Steel Slag, Crushed Concrete
Frost Heave BS 812-124	6.2mm	< 15mm

Issued by: Tyler Loveridge

Date: 6th March 2023

It is the sole responsibility of the certificate holder to ensure the validity and current status of all information herein

Mr Tyler Loveridge
Aggregate Industries UK Limited
Colemans Laboratory
Holwell, Nunney
Frome
Somerset, BA11 4PX



Certificate No.	AGG22-280/2
Date of Issue	29 November 2022

CERTIFICATE OF TEST FOR RESISTANCE TO FRAGMENTATION LOS ANGELES COEFFICIENT

Sample Material:	6.3/14mm Aggregate	Source:	Torr Quarry
Sample Ref. No:	SCOA/0089416 135900C	Date Sampled:	04/10/2022
Certificate of Sampling:	No	Date Received:	26/10/2022
Date Tested:	15/11/2022	Size Fraction Tested:	10/14
Test Method:	BS EN 1097-2 : 2020		

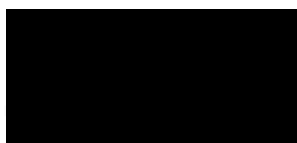
Los Angeles Coefficient (LA):	18
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Remarks:

Notes / Disclaimers:

1. Results relate only to the items tested	Yes
2. Sample information provided by the customer	Yes
3. Sample provided by the customer, results apply to the sample as received	Yes
4. Deviating sample	No

Authorised Signatory:



R. Allen – Head of R&D and Technical Services		I Artamendi – Laboratory Manager	√
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1641

AGGREGATE INDUSTRIES UK LIMITED

R&D and Technical Services
Moordale House, Hulland Ward, Smith Hall Lane, Ashbourne
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Telephone: +44 (0)1335 37 2252 / 2208

Mr Tyler Loveridge
Aggregate Industries UK Limited
Colemans Laboratory
Holwell, Nunney
Frome
Somerset, BA11 4PX



Certificate No.	AGG22-280/1
Date of Issue	29 November 2022

CERTIFICATE OF TEST FOR RESISTANCE TO WEAR MICRO-DEVAL COEFFICIENT

Sample Material:	6.3/14mm Aggregate	Source:	Torr Quarry
Sample Ref. No:	SCOA/0089416 135900C	Date Sampled:	04/10/2022
Certificate of Sampling:	Yes	Date Received:	26/10/2022
Date Tested:	15/11/2022	Type of Test:	Wet
Test Method:	BS EN 1097-1 : 2011		
Individual Test Results:	A: 16.8 B: 15.4		

Micro-Deval Coefficient (M_{DE})	16
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Notes / Disclaimers:

1. Results relate only to the items tested	Yes
2. Sample information provided by the customer	Yes
3. Sample provided by the customer, results apply to the sample as received	Yes
4. Deviating sample	No

Authorised Signatory:



R. Allen – Head of R&D and Technical Services		I. Artamendi – Laboratory Manager	√
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Aggregate Industries UK Limited
Bardon Hill
Coalville
Leicestershire
LE67 1TL

Date: 20 September 2022
Test Report Ref: TR 897603

Order No: Tyler Loveridge - Card

Page 1 of 2

Contract: Torr Quarry

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Frost Heave of Unbound Aggregate in accordance with **BS 812: Part 124: 2009 - Annex B (Use of Comparator Specimens)**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S104460
Client Ref. No:	SCOA/0085030
Date and Time of Sampling:	20/07/2022
Date of Receipt at Lab:	27/07/2022
Date of Start of Test:	08/09/2022
Sampling Location:	G1 Stock
Name of Source:	Torr Quarry
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MW
Material Description:	Type 1 Sub-Base
Target Specification	SHW Series 800: clause 801.15

RESULTS:

Were any unrepresentative lumps present? No

Frost Heave Test Result:

Comparator Specimen - Maximum Heave Observed in 96 hours (mm)		
Comparator Specimen 1	12.0	(nearest 0.5mm)
Comparator Specimen 2	12.0	(nearest 0.5mm)
Comparator Specimen 3	12.5	(nearest 0.5mm)
Mean	12.2	(nearest 0.1mm) (limits: 13.6 +/- 4mm)
Test Specimen - Maximum Heave Observed in 96 hours (mm)		
Test Specimen 1	6.5	(nearest 0.5mm)
Test Specimen 2	5.5	(nearest 0.5mm)
Test Specimen 3	6.5	(nearest 0.5mm)
Range of Test Specimens Maximum Heave	1.0	(should not exceed 6mm)
Mean Frost Heave	6.2	(nearest 0.1mm)

In accordance with SHW Series 800: clause 801.15 the sample is classified as being
Non Frost Susceptible (mean frost heave ≤ 15mm)

Test Report Ref: TR 897603 Page 2 of 2

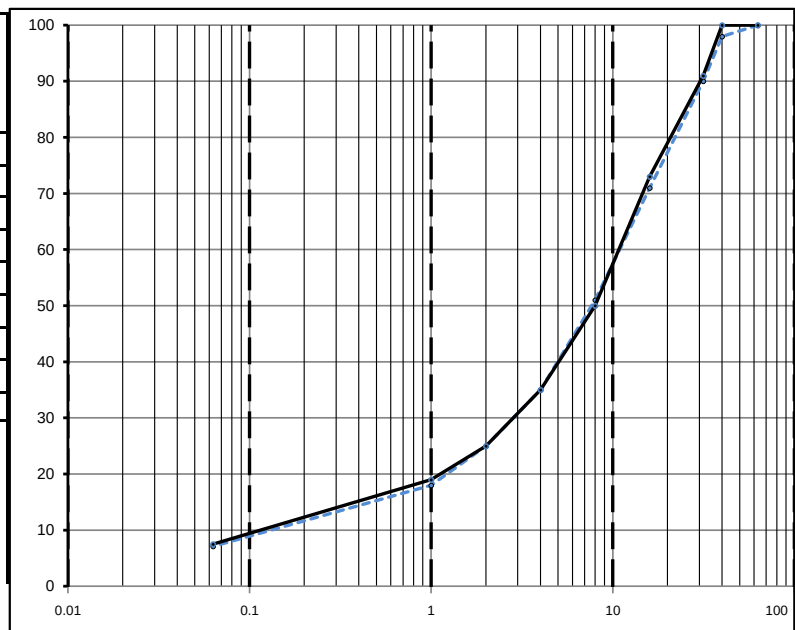
RESULTS CONTINUED:

Laboratory Dry Density & Water Content Test Result

Maximum Dry Density	2.37 Mg/m3
Optimum Water Content	4.5 %
Actual Dry Density	2.37 Mg/m3
Actual Water Content	4.7 %

Particle Size Distribution Test Result

BS Test Sieve Nominal Aperture	As Received Test Portion % Passing	Stable Test Portion % Passing
63.0 mm	100	100
40.0 mm	98	100
31.5 mm	90	91
16.0 mm	71	73
8.0 mm	51	50
4.0 mm	35	35
2.0 mm	25	25
1.0 mm	18	19
0.063 mm	7.1	7.5



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These results relate only to the items tested.

Comments:

None

Report checked and approved by:


Chantelle Kopec-Williams
Job Coordinator

Aggregate Industries UK Limited
Bardon Hill
Coalville
Leicestershire
LE67 1TL

Date: 20 September 2022
Test Report Ref: TR 897602

Order No: Tyler Loveridge - Card

Page 1 of 1

Contract: Torr Quarry

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil
Vibrating Hammer Method in accordance with **BS 1377: 4: 1990 Clause 3.7**

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

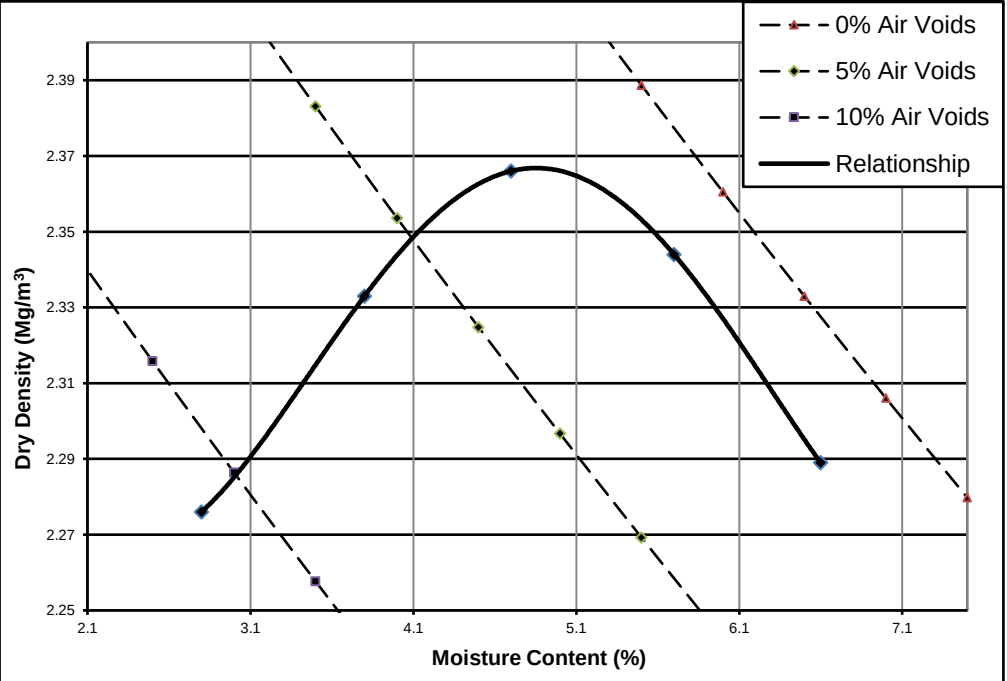
No
S104460
SCOA/0085030
20/07/2022
27/07/2022
06/09/2022
G1 Stock
Type 1 Sub-Base

Name of Source: **Torr Quarry**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **MW**
Sample Preparation Procedure: **3.2.7.2**
Sample Preparation Method: **Separate**

RESULTS:

Particle Density: **2.75Mg/m³**
(Assumed)

Retained on 37.5mm Sieve:	5.1 %
Retained on 20mm Sieve:	28.3 %
Moisture Content (%)	Dry Density Mg/m ³
3.8	2.33
4.7	2.37
5.7	2.34
6.6	2.29
2.8	2.28
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
4.7	2.37



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These results relate only to the items tested.

Comments:

None

and approved by:

Chantelle Kopec-Williams
Job Coordinator

Aggregate Industries UK Limited
Bardon Hill
Coalville
Leicestershire
LE67 1TL

Date: 27 February 2023
Test Report Ref: TR 936200

Page 1 of 1

Contract: Torr

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Plastic Limit, Liquid Limit, and Plasticity Index of sample in accordance with
BS 1377:Part 2:1990 Clause 5.3, Clause 4.3, and Clause 5.4.

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S108305
Client Ref. :	FQ95383
Date and Time of Sampling:	26/01/2023
Date of Receipt at Lab:	07/02/2023
Date of Start of Test:	22/02/2023
Sampling Location:	Chelmsford
Name of Source:	Torr
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	SR
Soil Description:	Type 1 - London Depot Blend
Target Specification:	N/A

RESULTS:

History of sample:	:	After wet sieving
% Materials passing 425µm	=	12
Plastic Limit	=	Non-Plastic
Liquid Limit	=	N/A
Plasticity Index	=	N/A

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These results relate only to the items tested.

Comments: None	Report checked and approved by:  Chantelle Kopec-Williams Job Coordinator
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Damian Jones
Sevenoaks Environmental Consultancy Ltd
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-15326

Site Reference: Whinbush WAC & MOT Sampling

Project / Job Ref: 5551

Order No: 5551

Sample Receipt Date: 15/12/2023

Sample Scheduled Date: 15/12/2023

Report Issue Number: 1

Reporting Date: 21/12/2023



Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

For Topsoil and WAC analysis the expanded uncertainty measurement should be considered while evaluating results against compliance values.



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Kent ME17 2JN
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Soil Analysis Certificate						
DETS Report No: 23-15326	Date Sampled	13/12/23	13/12/23	13/12/23	13/12/23	13/12/23
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Whinbush WAC & MOT Sampling	TP / BH No	HP201	MOT 1	TP01	TP01	TP01
Project / Job Ref: 5551	Additional Refs	MG	MG	MG	NAT	NAT
Order No: 5551	Depth (m)	0.15	0.10	0.15	0.50	1.30
Reporting Date: 21/12/2023	DETS Sample No	690681	690682	690683	690684	690685

Determinand	Unit	RL	Accreditation	(n)		
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected		
pH	pH Units	N/a	MCERTS	9.0		
Total Cyanide	mg/kg	< 1	NONE	< 1		
Free Cyanide	mg/kg	< 1	NONE	< 1		
Thiocyanate as SCN	mg/kg	< 3	NONE	< 3		
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	2149		
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.21		
Sulphide	mg/kg	< 5	NONE	< 5		
Organic Matter (SOM)	%	< 0.1	MCERTS	10.2		
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	5.9		
Antimony (Sb)	mg/kg	< 1	NONE	2.9		
Arsenic (As)	mg/kg	< 2	MCERTS	15		
Barium (Ba)	mg/kg	< 2.5	MCERTS	665		
W/S Boron	mg/kg	< 1	NONE	< 1		
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.9		
Chromium (Cr)	mg/kg	< 2	MCERTS	8		
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2		
Copper (Cu)	mg/kg	< 4	MCERTS	41		
Lead (Pb)	mg/kg	< 3	MCERTS	156		
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1		
Nickel (Ni)	mg/kg	< 3	MCERTS	8		
Selenium (Se)	mg/kg	< 2	MCERTS	< 2		
Zinc (Zn)	mg/kg	< 3	MCERTS	78		
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - Speciated PAHs

DETS Report No: 23-15326	Date Sampled	13/12/23				
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied				
Site Reference: Whinbush WAC & MOT	TP / BH No	MOT 1				
Sampling	Additional Refs	MG				
Project / Job Ref: 5551	Depth (m)	0.10				
Order No: 5551	DETS Sample No	690682				
Reporting Date: 21/12/2023						

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	MCERTS	0.13				
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1				
Acenaphthene	mg/kg	< 0.1	MCERTS	0.26				
Fluorene	mg/kg	< 0.1	MCERTS	0.32				
Phenanthrene	mg/kg	< 0.1	MCERTS	2.02				
Anthracene	mg/kg	< 0.1	MCERTS	0.52				
Fluoranthene	mg/kg	< 0.1	MCERTS	1.76				
Pyrene	mg/kg	< 0.1	MCERTS	1.45				
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.53				
Chrysene	mg/kg	< 0.1	MCERTS	0.49				
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.41				
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.13				
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.42				
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.18				
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.15				
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	8.8				

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 23-15326	Date Sampled	13/12/23	13/12/23	13/12/23	13/12/23	13/12/23
Sevenoaks Environmental Consultancy Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Whinbush WAC & MOT	TP / BH No	HP201	MOT 1	TP01	TP01	TP01
Sampling	Additional Refs	MG	MG	MG	NAT	NAT
Project / Job Ref: 5551	Depth (m)	0.15	0.10	0.15	0.50	1.30
Order No: 5551	DETS Sample No	690681	690682	690683	690684	690685
Reporting Date: 21/12/2023						

Determinand	Unit	RL	Accreditation	(n)			
EPH Texas (C6 - C8) : HS 1D MS Total	mg/kg	< 0.05	NONE	< 0.05			
EPH Texas (>C8 - C10) : EH 1D Total	mg/kg	< 1	MCERTS	< 1			
EPH Texas (>C10 - C12) : EH 1D Total	mg/kg	< 1	MCERTS	2			
EPH Texas (>C12 - C16) : EH 1D Total	mg/kg	< 1	MCERTS	7			
EPH Texas (>C16 - C21) : EH 1D Total	mg/kg	< 1	MCERTS	13			
EPH Texas (>C21 - C40) : EH 1D Total	mg/kg	< 6	MCERTS	53			
EPH Texas (C6 - C40) : HS 1D MS+EH 1D Total	mg/kg	< 6	NONE	76			

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3									
DETS Report No: 23-15326		Date Sampled	13/12/23		Landfill Waste Acceptance Criteria Limits				
Sevenoaks Environmental Consultancy Ltd		Time Sampled	None Supplied						
Site Reference: Whinbush WAC & MOT Sampling		TP / BH No	HP201						
Project / Job Ref: 5551		Additional Refs	MG						
Order No: 5551		Depth (m)	0.15						
Reporting Date: 21/12/2023		DETS Sample No	690681						
Determinand	Unit	MDL			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill		
TOC ^{MU}	%	< 0.1	2.6		3%	5%	6%		
Loss on Ignition ^{MU}	%	< 0.01	6.10		--	--	10%		
BTEX ^{MU}	mg/kg	< 0.05	< 0.05		6	--	--		
Sum of PCBs	mg/kg	< 0.1	< 0.1		1	--	--		
Mineral Oil ^{MU}	mg/kg	< 10	1512		500	--	--		
Total PAH ^{MU}	mg/kg	< 1.7	80.8		100	--	--		
pH ^{MU}	pH Units	N/a	8.6		--	>6	--		
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2.2		--	To be evaluated	To be evaluated		
Eluate Analysis			2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U		0.0079	0.0088		0.159	0.5	2	25	
Barium ^U		0.0652	0.0424		0.781	20	100	300	
Cadmium ^U		< 0.0002	< 0.0002		0.002	0.04	1	5	
Chromium ^U		0.0005	0.0017		0.029	0.5	10	70	
Copper ^U		0.0103	0.0110		0.198	2	50	100	
Mercury ^U		0.00005	0.00005		0.0009	0.01	0.2	2	
Molybdenum ^U		0.1540	0.0390		0.773	0.5	10	30	
Nickel ^U		0.0044	0.0042		0.0767	0.4	10	40	
Lead ^U		0.0155	0.0513		0.909	0.5	10	50	
Antimony ^U		0.0162	0.0077		0.144	0.06	0.7	5	
Selenium ^U		0.0014	0.0007		0.0124	0.1	0.5	7	
Zinc ^U		0.024	0.039		0.70	4	50	200	
Chloride ^U		3	3		46	800	15000	25000	
Fluoride ^U		0.8	< 0.5		< 1	10	150	500	
Sulphate ^U		31	11		218	1000	20000	50000	
TDS		138	80		1482	4000	60000	100000	
Phenol Index ^U		< 0.01	< 0.01		< 0.5	1	-	-	
DOC ^U		55.1	27.9		520	500	800	1000	
Leach Test Information									
Sample Mass (kg)			0.11						
Dry Matter (%)			78.4						
Moisture (%)			27.6						
Stage 1									
Volume Eluate L2 (litres)			0.15						
Filtered Eluate VE1 (litres)			0.05						
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion									
Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation									
M Denotes MCERTS accredited test									
U Denotes ISO17025 accredited test									



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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3									
DETS Report No: 23-15326		Date Sampled	13/12/23		Landfill Waste Acceptance Criteria Limits				
Sevenoaks Environmental Consultancy Ltd		Time Sampled	None Supplied						
Site Reference: Whinbush WAC & MOT Sampling		TP / BH No	TP01						
Project / Job Ref: 5551		Additional Refs	MG						
Order No: 5551		Depth (m)	0.15						
Reporting Date: 21/12/2023		DETS Sample No	690683						
Determinand	Unit	MDL							
TOC ^{MU}	%	< 0.1		1					
Loss on Ignition ^{MU}	%	< 0.01		4.70					
BTEX ^{MU}	mg/kg	< 0.05		< 0.05					
Sum of PCBs	mg/kg	< 0.1		< 0.1					
Mineral Oil ^{MU}	mg/kg	< 10		498					
Total PAH ^{MU}	mg/kg	< 1.7		< 1.7					
pH ^{MU}	pH Units	N/a		9.6					
Acid Neutralisation Capacity	mol/kg (+/-)	< 1		2					
Eluate Analysis				2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)	
Arsenic ^U		0.0050	0.0051		0.092	0.5	2	25	
Barium ^U		0.0127	0.0086		0.160	20	100	300	
Cadmium ^U		< 0.0002	< 0.0002		< 0.002	0.04	1	5	
Chromium ^U		0.0074	0.0020		0.042	0.5	10	70	
Copper ^U		0.0217	0.0078		0.153	2	50	100	
Mercury ^U		< 0.00004	< 0.00004		< 0.0004	0.01	0.2	2	
Molybdenum ^U		0.0030	0.0008		0.016	0.5	10	30	
Nickel ^U		0.0013	0.0006		0.0123	0.4	10	40	
Lead ^U		0.0019	0.0026		0.046	0.5	10	50	
Antimony ^U		< 0.0002	< 0.0002		< 0.002	0.06	0.7	5	
Selenium ^U		0.0008	0.0003		0.0050	0.1	0.5	7	
Zinc ^U		0.008	0.007		0.13	4	50	200	
Chloride ^U		4	2		40	800	15000	25000	
Fluoride ^U		< 0.5	< 0.5		< 1	10	150	500	
Sulphate ^U		35	9		186	1000	20000	50000	
TDS		115	62		1169	4000	60000	100000	
Phenol Index ^U		< 0.01	< 0.01		< 0.5	1	-	-	
DOC ^U		12.3	11.7		212	500	800	1000	
Leach Test Information									
Sample Mass (kg)				0.10					
Dry Matter (%)				85.5					
Moisture (%)				17					
Stage 1									
Volume Eluate L2 (litres)				0.16					
Filtered Eluate VE1 (litres)				0.08					
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion									
Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation									
M Denotes MCERTS accredited test									
U Denotes ISO17025 accredited test									



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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3									
DETS Report No: 23-15326		Date Sampled	13/12/23			Landfill Waste Acceptance Criteria Limits			
Sevenoaks Environmental Consultancy Ltd		Time Sampled	None Supplied						
Site Reference: Whinbush WAC & MOT Sampling		TP / BH No	TP01						
Project / Job Ref: 5551		Additional Refs	NAT						
Order No: 5551		Depth (m)	0.50						
Reporting Date: 21/12/2023		DETS Sample No	690684						
Determinand	Unit	MDL				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
TOC ^{MU}	%	< 0.1	0.9			3%	5%	6%	
Loss on Ignition ^{MU}	%	< 0.01	3.40			--	--	10%	
BTEX ^{MU}	mg/kg	< 0.05	< 0.05			6	--	--	
Sum of PCBs	mg/kg	< 0.1	< 0.1			1	--	--	
Mineral Oil ^{MU}	mg/kg	< 10	< 10			500	--	--	
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7			100	--	--	
pH ^{MU}	pH Units	N/a	8.4			--	>6	--	
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	4.9			--	To be evaluated	To be evaluated	
Eluate Analysis			2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U		0.0017	0.0010		0.018	0.5	2	25	
Barium ^U		0.0128	0.0077		0.142	20	100	300	
Cadmium ^U		< 0.0002	< 0.0002		< 0.002	0.04	1	5	
Chromium ^U		0.0020	0.0007		0.014	0.5	10	70	
Copper ^U		0.0041	0.0029		0.053	2	50	100	
Mercury ^U		< 0.00004	< 0.00004		< 0.0004	0.01	0.2	2	
Molybdenum ^U		0.0764	0.0274		0.519	0.5	10	30	
Nickel ^U		0.0022	0.0014		0.0254	0.4	10	40	
Lead ^U		0.0006	0.0004		0.007	0.5	10	50	
Antimony ^U		< 0.0002	< 0.0002		< 0.002	0.06	0.7	5	
Selenium ^U		0.0002	< 0.0002		< 0.0002	0.1	0.5	7	
Zinc ^U		0.006	0.004		0.07	4	50	200	
Chloride ^U		7	< 1		19	800	15000	25000	
Fluoride ^U		0.7	< 0.5		< 1	10	150	500	
Sulphate ^U		11	1		28	1000	20000	50000	
TDS		110	51		951	4000	60000	100000	
Phenol Index ^U		< 0.01	< 0.01		< 0.5	1	-	-	
DOC ^U		22.6	20.1		365	500	800	1000	
Leach Test Information									
Sample Mass (kg)		0.10							
Dry Matter (%)		86.7							
Moisture (%)		15.4							
Stage 1									
Volume Eluate L2 (litres)		0.16							
Filtered Eluate VE1 (litres)		0.04							
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion									
Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation									
M Denotes MCERTS accredited test									
U Denotes ISO17025 accredited test									



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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3									
DETS Report No: 23-15326		Date Sampled	13/12/23		Landfill Waste Acceptance Criteria Limits				
Sevenoaks Environmental Consultancy Ltd		Time Sampled	None Supplied						
Site Reference: Whinbush WAC & MOT Sampling		TP / BH No	TP01						
Project / Job Ref: 5551		Additional Refs	NAT						
Order No: 5551		Depth (m)	1.30						
Reporting Date: 21/12/2023		DETS Sample No	690685						
Determinand	Unit	MDL			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill		
TOC ^{MU}	%	< 0.1	1		3%	5%	6%		
Loss on Ignition ^{MU}	%	< 0.01	3.30		--	--	10%		
BTEX ^{MU}	mg/kg	< 0.05	< 0.05		6	--	--		
Sum of PCBs	mg/kg	< 0.1	< 0.1		1	--	--		
Mineral Oil ^{MU}	mg/kg	< 10	< 10		500	--	--		
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7		100	--	--		
pH ^{MU}	pH Units	N/a	8.0		--	>6	--		
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	4.9		--	To be evaluated	To be evaluated		
Eluate Analysis			2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U		< 0.0002	< 0.0002		0.003	0.5	2	25	
Barium ^U		0.0328	0.0175		0.327	20	100	300	
Cadmium ^U		< 0.0002	< 0.0002		< 0.002	0.04	1	5	
Chromium ^U		0.0002	0.0003		0.005	0.5	10	70	
Copper ^U		0.0021	0.0020		0.037	2	50	100	
Mercury ^U		< 0.00004	< 0.00004		< 0.0004	0.01	0.2	2	
Molybdenum ^U		0.0013	0.0026		0.047	0.5	10	30	
Nickel ^U		0.0005	0.0008		0.0151	0.4	10	40	
Lead ^U		< 0.0002	< 0.0002		< 0.002	0.5	10	50	
Antimony ^U		< 0.0002	< 0.0002		< 0.002	0.06	0.7	5	
Selenium ^U		< 0.0002	< 0.0002		0.0030	0.1	0.5	7	
Zinc ^U		0.008	0.002		0.05	4	50	200	
Chloride ^U		2	2		42	800	15000	25000	
Fluoride ^U		< 0.5	< 0.5		< 1	10	150	500	
Sulphate ^U		20	5		104	1000	20000	50000	
TDS		111	61		1139	4000	60000	100000	
Phenol Index ^U		< 0.01	< 0.01		< 0.5	1	-	-	
DOC ^U		6.1	10.9		194	500	800	1000	
Leach Test Information									
Sample Mass (kg)		0.11							
Dry Matter (%)		82.2							
Moisture (%)		21.6							
Stage 1									
Volume Eluate L2 (litres)		0.16							
Filtered Eluate VE1 (litres)		0.06							
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion									
Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation									
M Denotes MCERTS accredited test									
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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 23-15326	
Sevenoaks Environmental Consultancy Ltd	
Site Reference: Whinbush WAC & MOT Sampling	
Project / Job Ref: 5551	
Order No: 5551	
Reporting Date: 21/12/2023	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
690681	HP201	MG	0.15	21.1	Brown sandy clay with stones
690682	MOT 1	MG	0.10	3.1	Light brown sandy gravel with stones
690683	TP01	MG	0.15	14	Brown gravelly sand with stones and concrete
690684	TP01	NAT	0.50	12.8	Brown sandy clay with chalk
690685	TP01	NAT	1.30	17.3	Light brown sandy clay

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{u/s}

Unsuitable Sample ^{u/s}



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 23-15326	
Sevenoaks Environmental Consultancy Ltd	
Site Reference: Whinbush WAC & MOT Sampling	
Project / Job Ref: 5551	
Order No: 5551	
Reporting Date: 21/12/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 23-15326	
Sevenoaks Environmental Consultancy Ltd	
Site Reference: Whinbush WAC & MOT Sampling	
Project / Job Ref: 5551	
Order No: 5551	
Reporting Date: 21/12/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered



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List of HWOL Acronyms and Operators	
DETS Report No: 23-15326	
Sevenoaks Environmental Consultancy Ltd	
Site Reference: Whinbush WAC & MOT Sampling	
Project / Job Ref: 5551	
Order No: 5551	
Reporting Date: 21/12/2023	

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym	
EPH Texas (C10 - C12) - EH_1D_Total	
EPH Texas (C12 - C16) - EH_1D_Total	
EPH Texas (C16 - C21) - EH_1D_Total	
EPH Texas (C21 - C40) - EH_1D_Total	
EPH Texas (C6 - C40) - HS_1D_MS+EH_1D_Total	
EPH Texas (C6 - C8) - HS_1D_MS_Total	
EPH Texas (C8 - C10) - EH_1D_Total	
Mineral Oil (C10 - C40) (BS EN 12457-3) - EH_CU_1D_AL	
Total BTEX (BS EN 12457-3) - HS_1D_MS_Total	

Parameter	Matrix Type	Suite Reference	Expanded Uncertainty Measurement	Unit
TOC	Soil	BS EN 12457	10.4	%
Loss on Ignition	Soil	BS EN 12457	16.9	%
BTEX	Soil	BS EN 12457	14.0	%
Sum of PCBs	Soil	BS EN 12457	21.1	%
Mineral Oil	Soil	BS EN 12457	9.0	%
Total PAH	Soil	BS EN 12457	17.9	%
pH	Soil	BS EN 12457	0.282	Units
Acid Neutralisation Capacity	Soil	BS EN 12457	18.0	%
Arsenic	Leachate	BS EN 12457	19.5	%
Barium	Leachate	BS EN 12457	12.2	%
Cadmium	Leachate	BS EN 12457	17.2	%
Chromium	Leachate	BS EN 12457	20.7	%
Copper	Leachate	BS EN 12457	14.1	%
Mercury	Leachate	BS EN 12457	16.7	%
Molybdenum	Leachate	BS EN 12457	13.3	%
Nickel	Leachate	BS EN 12457	14.0	%
Lead	Leachate	BS EN 12457	12.1	%
Antimony	Leachate	BS EN 12457	16.1	%
Selenium	Leachate	BS EN 12457	15.5	%
Zinc	Leachate	BS EN 12457	14.0	%
Chloride	Leachate	BS EN 12457	15.7	%
Fluoride	Leachate	BS EN 12457	19.1	%
Sulphate	Leachate	BS EN 12457	27.6	%
TDS	Leachate	BS EN 12457	10.0	%
Phenol Index	Leachate	BS EN 12457	12.9	%
DOC	Leachate	BS EN 12457	20.4	%
Clay Content	Soil	BS 3882: 2015	15.0	%
Silt Content	Soil	BS 3882: 2015	14.0	%
Sand Content	Soil	BS 3882: 2015	13.0	%
Loss on Ignition	Soil	BS 3882: 2015	16.9	%
pH	Soil	BS 3882: 2015	0.282	Units
Carbonate	Soil	BS 3882: 2015	12.0	%
Total Nitrogen	Soil	BS 3882: 2015	12.0	%
Phosphorus (Extractable)	Soil	BS 3882: 2015	24.0	%
Potassium (Extractable)	Soil	BS 3882: 2015	20.0	%
Magnesium (Extractable)	Soil	BS 3882: 2015	26.0	%
Zinc	Soil	BS 3882: 2015	19.8	%
Copper	Soil	BS 3882: 2015	23.2	%
Nickel	Soil	BS 3882: 2015	32.6	%
Available Sodium	Soil	BS 3882: 2015	23.0	%
Available Calcium	Soil	BS 3882: 2015	23.0	%
Electrical Conductivity	Soil	BS 3882: 2015	10.0	%

Appendix Dvi

Tank Disposal Consignment Notes

Job No

DOC61321

Date

22/11/2023

Duty of Care – Controlled Waste Transfer Note

Registered Waste Carrier – No. CBDU93436

Section 1 – Waste Details

Description of Waste

160117 Ferrous Metals

Physical Form:

Solid

How Contained:

Loose

Quantity KGS:

400

Section 2 – Transfer Details

Collected From

81 Whinbush Rd
81 Whinbush Road, Hitchin SG5 1PZ

Transferred To

J W Hinchliffe Ltd
Weaver Street
Leeds
LS4 2AU

SIC code (2007)

43120

License No

65133

Issued By

E.A

Producer

I certify that the information contained in the sections 1 & 2 is correct and that I have checked that the Person I have selected to take the waste is properly authorised as shown below. Also, that the carrier was advised of appropriate precautionary measures.

Signed



Time

14:39

Name

Aaron Kane

Date

22/11/2023

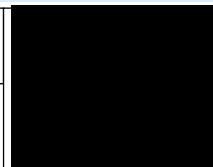
For

81 Whinbush Rd

Carrier

I certify that I collected the consignment of waste from the address shown in section 2 (Left) and am transferring the load to the address shown in section 2 (Right).

Signed



Time

14:39

Date

22/11/2023

For

J W Hinchliffe Ltd

Disposal Point

I certify that this is the facility identified in section 2 (Above) and that the license referred to authorises the disposal of the waste in section 1.

Signed

Nick Saunders

Time

13:27

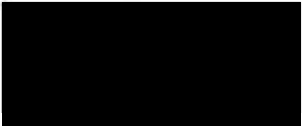
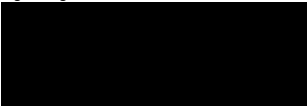


Date

23/11/2023

For

J W Hinchliffe Ltd

PART A - NOTIFICATION DETAILS						
1. Consignment code: 61321			2. Premises Code (If applicable): WINDBU			
3. Waste described below to be removed from (Name, Address, Telephone & Email) 81 Whinbush Rd, 81 Whinbush Road, Hitchin SG5 1PZ, +441892822999,t.ing@sevenoaksenvironmental.com						
4. Waste will be taken to: J W Hinchliffe Ltd, Weaver Street, Leeds, West Yorkshire, LS4 2AU						
5. The waste producer was (if different from 3):						
PART B - DESCRIPTION OF WASTE						
1. Process giving rise to the waste was: Tank Removal					2. SIC CODE: 43120	
3. Waste Details (Information to be completed for each EWC code collected)						
Description of Waste	EWC Code	Quantity (KG)	Components of the waste and their concentrations mg/kg or %	Physical Form	Hazard Codes	Container type Number & Size
Waste Containing Oil	160708	50	> 1% Hydrocarbons	Sludge	HP3	Vac Unit x 1 - 500L
The information below is to be completed for each EWC code						
EWC Code		Description for carriage (UN Number, Proper Shipping name, UN Class & Packing Group)			Special handling requirements	
160708					PPE	
					PPE	
PART C - CARRIERS CERTIFICATE				PART D - CONSIGNORS CERTIFICATE		
If more than one carrier is used, a schedule should be attached. If a schedule is attached, tick here				I certify that the information in A, B & C has been completed and is attached. If a schedule is attached, tick here. correct. The carrier is registered or exempt and was advised of the I certify that I today have collected the consignment and appropriate precautionary measures. All of the waste is labelled and that the details in A3, A4 & B3 are correct. I have been packaged correctly, and the carrier has been advised of any special informed of any special handling requirements, handling requirements. Where this note comprises part of a multiple collection, I have fulfilled my duty to apply the waste hierarchy as required by the round number and collection number are: Regulation 12 of the Waste (England & Wales) Regulations 2011.		
I certify that I today have collected the consignment and that the details in A3, A4 & B3 are correct. I have been informed of any special handling requirements.						
Where this note comprises part of a multiple collection, the round number and collection number are						
Driver's name: John Hinchliffe						
On Behalf of: J W Hinchliffe Ltd, Weaver Street, Leeds, LS4 2AU - Tel: 0113 263 5163 Email: enquiries@jwhtanks.co.uk				Consignor Name:Aaron Kane		
Carrier Reg: CB/DU93436				On Behalf of: 81 Whinbush Rd, 81 Whinbush Road, Hitchin SG5 1PZ		
Vehicle Registration: KK17 UFJ				Telephone (If provided) :		
				Email:t.ing@sevenoaksenvironmental.com		
Date:22/11/2023		Time:14:39		Date:22/11/2023		Time:14:39
Drivers Signature: 				Consignor Signature: 		
PART E - CONSIGNEE CERTIFICATE (Complete for each EWC collected)						
EWC code	Quantity Received (KG)		EWC code accepted / rejected	Waste management operation (R or D code)		
160708	50		Accept	D15		
I received the waste at the address given in A4 on: Date & Time : 22/11/2023 18:00 Vehicle Reg: KK17 UFJ I certify that the waste management license / permit 65133 authorises the management of the waste described in B at the address given in A4. If the consignment forms a multiple collection, the total number of consignments are:			Name: Nick Saunders On behalf of: J W Hinchliffe Ltd , Weaver Street, Leeds, LS4 2AU Tel: 01132635163 Email: enquiries@jwhtanks.co.uk Date & Time : 22/11/2023 18:00 Signature – 			

Appendix Dvii

Gas Free Certificate

Gas Free Certificate

Weaver Street
Leeds
LS4 2AU

Date of Issue: 22/11/2023
Time of Issue: 14:39
Customer Name: 81 Whinbush Rd
Location: 81 Whinbush Road, Hitchin SG5 1PZ
Job Ref: 61321

Tel: 0113 2635163
Fax: 0113 2635164
Email: info@jwhtanks.co.uk
Web: www.jwhtanks.co.uk

Declaration:

At the date and time shown, JWH Tanks Ltd, completed an atmospheric monitoring test of the installation named, with a calibrated LEL (Lower Explosive Limit) gas monitor. The Installation(s) mentioned were found to be free from the flammable gas or vapour and (subject to the conditions and advisory notes below) are deemed safe for the use of hot works.

Conditions:

The area observed should remain isolated for the duration of the works. Should the conditions observed during the examination be changed, this certificate will be cancelled. The certificate only relates to the area inside the installation, the entire area must be cleared of combustible material prior to any hot works.

Advisory Notes:

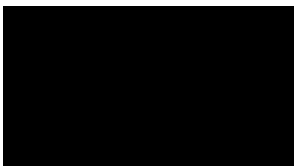
Works using hot cutting equipment and/or involving entering a confined space should only be undertaken by trained and competent personnel under a permit to work system. Reference should be made to The Confined Spaces Regulations 1997 and Management of Health and Safety Regulations 1999 along with relevant HSE guidance notes.

Petrol Tanks – Valid for 24 hours from the time stated above

Number of tanks cleaned or cold cut?	Capacities of tanks?	Identities of tanks? (if present)
0	N/A	N/A

Diesel / Kerosene / Oil Tanks – Valid for 7 days from the time stated above

Number of tanks cleaned or cold cut?	Capacities of tanks?	Identities of tanks? (if present)
1	500 gallon	500 gallon

Client Signature:**Client Name:** Aaron Kane**Engineer Name & Signature:** John Hinchliffe

Appendix Dviii

Certificate of Tank Decommissioning



Weaver Street, Leeds, LS4 2AU
Tel: 0113 263 5163
Fax: 0113 263 5164
Email: info@jwhtanks.co.uk

Job No.	61321
Date	22/11/2023

Certificate of Tank Decommissioning: 81 Whinbush Road, Hitchin SG5 1PZ

Section 1 – Tank Details

Has the job been completed as per the quotation?

Number of tanks:

Capacity of tanks in litres:

Grade of fuel:

Section 2 – Job Details

Has the tank(s) been permanently decommissioned?

Is the tank(s) remaining in situ?

Method of Decommissioning?

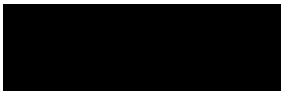
Haz waste note issued?

Duty of care note issued?

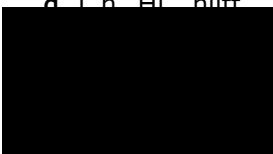
Notes:

No

Customer

Signed: 	Print name: Aaron Kane	On behalf of: 81 Whinbush Rd
		Date: 22/11/2023

JWH Tanks Engineer

Signed: J.W. Hinchliffe 	On behalf of: J.W Hinchliffe (Tanks) Ltd
	Date: 22/11/2023

Appendix E

Hotspot Soil Validation Laboratory Results

Damian Jones
Sevenoaks Environmental Consultancy Ltd
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

Normec DETS Limited
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 25-02538

Site Reference: Hitchin

Project / Job Ref: 5551 Hitchin

Order No: 5551

Sample Receipt Date: 06/03/2025

Sample Scheduled Date: 07/03/2025

Report Issue Number: 1

Reporting Date: 17/03/2025

Authorised by:



Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Soil Analysis Certificate						
DETS Report No: 25-02538	~Date Sampled	03/03/25	03/03/25	03/03/25	03/03/25	
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1415	1420	1425	1520	
~Site Reference: Hitchin	~TP / BH No	Val A	Val B	Val C	Val E	
~Project / Job Ref: 5551 Hitchin	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: 5551	~Depth (m)	0.15	0.70	0.70	0.40	
Reporting Date: 17/03/2025	DETS Sample No	767462	767463	767464	767465	

Determinand	Unit	RL	Accreditation					
Lead (Pb)	mg/kg	< 3	MCERTS	16	11	25	10	
Zinc (Zn)	mg/kg	< 3	MCERTS	57	35	808	52	

Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 25-02538	~Date Sampled	03/03/25	03/03/25	03/03/25	03/03/25	
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1415	1420	1425	1520	
~Site Reference: Hitchin	~TP / BH No	Val A	Val B	Val C	Val E	
~Project / Job Ref: 5551 Hitchin	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: 5551	~Depth (m)	0.15	0.70	0.70	0.40	
Reporting Date: 17/03/2025	DETS Sample No	767462	767463	767464	767465	

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.20	< 0.1	
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Fluoranthene	mg/kg	< 0.1	MCERTS	0.19	< 0.1	0.39	< 0.1	
Pyrene	mg/kg	< 0.1	MCERTS	0.19	< 0.1	0.33	< 0.1	
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.19	< 0.1	
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.21	< 0.1	
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.12	< 0.1	0.26	< 0.1	
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.22	< 0.1	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.15	< 0.1	
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.15	< 0.1	
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	2.1	< 1.6	

Soil Analysis Certificate - EPH Texas Banded

DETS Report No: 25-02538	~Date Sampled	03/03/25	03/03/25	03/03/25	03/03/25
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1415	1420	1425	1520
~Site Reference: Hitchin	~TP / BH No	Val A	Val B	Val C	Val E
~Project / Job Ref: 5551 Hitchin	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5551	~Depth (m)	0.15	0.70	0.70	0.40
Reporting Date: 17/03/2025	DETS Sample No	767462	767463	767464	767465

Determinand	Unit	RL	Accreditation				
EPH Texas (C6 - C8) : HS 1D MS Total	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1
EPH Texas (>C10 - C12) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1
EPH Texas (>C12 - C16) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1
EPH Texas (>C16 - C21) : EH 1D Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1
EPH Texas (>C21 - C40) : EH 1D Total	mg/kg	< 6	MCERTS	< 6	< 6	9	< 6
EPH Texas (C6 - C40) : HS 1D MS+EH 1D Total	mg/kg	< 6	NONE	< 6	< 6	9	< 6

Soil Analysis Certificate - Sample Descriptions

DETS Report No: 25-02538	
Sevenoaks Environmental Consultancy Ltd	
~Site Reference: Hitchin	
~Project / Job Ref: 5551 Hitchin	
~Order No: 5551	
Reporting Date: 17/03/2025	

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
767462	Val A	None Supplied	0.15	11.8	Light brown sandy clay
767463	Val B	None Supplied	0.70	8.7	Light brown sandy clay with stones
767464	Val C	None Supplied	0.70	14.6	Light brown sandy clay
767465	Val E	None Supplied	0.40	15.4	Light brown sandy clay with chalk

Moisture content is part of procedure E003 & is not an accredited test

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 25-02538
Sevenoaks Environmental Consultancy Ltd
~Site Reference: Hitchin
~Project / Job Ref: 5551 Hitchin
~Order No: 5551
Reporting Date: 17/03/2025

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

List of HWOL Acronyms and Operators	
DETS Report No: 25-02538	
Sevenoaks Environmental Consultancy Ltd	
~Site Reference: Hitchin	
~Project / Job Ref: 5551 Hitchin	
~Order No: 5551	
Reporting Date: 17/03/2025	

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by customer and can affect the validity of results

EPH Texas (C10 - C12) - EH_1D_Total
EPH Texas (C12 - C16) - EH_1D_Total
EPH Texas (C16 - C21) - EH_1D_Total
EPH Texas (C21 - C40) - EH_1D_Total
EPH Texas (C6 - C40) - HS_1D_MS+EH_1D_Total
EPH Texas (C6 - C8) - HS_1D_MS_Total
EPH Texas (C8 - C10) - EH_1D_Total

Certificate Key

<u>Symbol</u>	<u>Description</u>
F	Filtered sample
UF	Unfiltered sample
D	Dried sample
AR	As received sample
RL	Reporting limit
~	Sample details provided by customer and can affect the validity of results
M/S	Missing Sample
M	MCERTS accredited test
U	UKAS accredited test

Appendix F

Waste Disposal Summary & Tickets

Date	Ticket No.	Type	Code	Consignment Note	Authorised Tip	Lorry Reg
13/02/2025	971820	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GL67 LCK
13/02/2025	965641	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW
13/02/2025	965642	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW
14/02/2025	965643	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW
14/02/2025	965644	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW
03/03/2025	969261	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GF16 UJK
03/03/2025	971294	Haz Concrete	17 01 06	WHINBU/SH001	Keltbray, North Woolwich Road, Silvertown E16 2AB	GF68 VSL
04/03/2025	969554	Haz Concrete	17 01 06	WHINBU/SH002	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN69 XSV
05/03/2025	923714	Haz Concrete	17 01 06	WHINBU/SH006	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW
05/03/2025	969267	Haz Concrete	17 01 06	WHINBU/SH007	Keltbray, North Woolwich Road, Silvertown E16 2AB	GF16 UJK
06/03/2025	733245	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	EU17 UXB
06/03/2025	968158	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GF68 VSL
06/03/2025	733246	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	EU17 UXB
07/03/2025	796853	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	EX24 VTS
10/03/2025	968164	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GF68 VSL
10/03/2025	923735	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW
11/03/2025	733249	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	EU17 UXB
17/03/2025	969292	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GF17 UKJ
17/03/2025	975003	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW
17/03/2025	976169	Non Haz	17 05 04	N/A	Keltbray, North Woolwich Road, Silvertown E16 2AB	GL67 LCK
18/03/2025	968538	Haz Soil	17 05 03	WHINBU/SH012	Keltbray, North Woolwich Road, Silvertown E16 2AB	GJ18 HXU
18/03/2025	969296	Haz Soil	17 05 03	WHINBU/SH011	Keltbray, North Woolwich Road, Silvertown E16 2AB	GF17 UKJ
18/03/2025	975008	Haz Concrete	17 01 06	WHINBU/SH010	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW
19/03/2025	962905	Haz Tarmac	17 03 02		Osmonds Transport & Planing Ltd, Greenacres Farm Old Hay, Tonbridge TN12 7DG	GF68 VSL
19/03/2025	968544	Haz Concrete	17 01 06	WHINBU/SH102	Keltbray, North Woolwich Road, Silvertown E16 2AB	GJ18 HXU
20/03/2025	975013	Haz Concrete	17 01 06	WHINBU/SH104	Keltbray, North Woolwich Road, Silvertown E16 2AB	GN16 FHW

**MARK LUCK LIMITED**

Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 971820

**Section A.**

Description of Waste/Material

NON HAZ
SOIL + STONE
AWAY

CLIENT
SIC

41 202

EWC

17 05 04

Vehicle Reg. No.

GL67LCK

Cubic Metres

In Words

1 X GRAB

GROSS

TARE

NETT

Driver's Name

LAWRENCE

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENDAKS ENVIRONMENTAL

Address

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, A
ticket fully and inspe
we cannot under any
been given. We Can

Signed by Drive

able Persons signing this Delivery Ticket. This is in your interest - Please read this
everything is to your satisfaction, before finally signing this receipt note. We regret
ing quantity or quality, once the vehicle has left the site and a clear signature has
by our vehicles while delivering material to your site.

Signed on behalf of Customer

PLEASE PRINT

13/2/25
Persons ordering vehicles off the public roads do so entirely at their own risk

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE



Nº 965641

Section A.

Description of Waste/Material

NON HAZ
SOIL + STONECLIENT
SIC

41 20 12

EWC

17 05 04

Vehicle Reg. No.

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

Section B. Current Holder of Waste/Material/Collection Point

Name

Address

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances be held responsible for any loss or damage concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot be held responsible for any loss or damage caused by our vehicles while delivering material to your site.

Signed by Driver

Date

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk

Nº 965642



All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Section A.

Description of Waste/Material

NON HAZ
SOIL + STONE

Vehicle Reg. No.

6N16FHW

Cubic Metres

In Words

1X LOAD

GROSS

TARE

NETT

Driver's Name

Lunt

CLIENT

SIC

41 20/12

EWG

17 05 04

Section B. Current Holder of Waste/Material/Collection Point

Name

SEWARD'S ENVIRONMENTAL CONSULTANCY

Address

81 WHELBUSH RD, HITCHIN, SG5 1P2

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTBAY

Address

N/ WOODWICH RD, SILVERTOWN, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and ensure that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances be held responsible for any loss or damage to goods or vehicles caused by our vehicles while delivering material to your site.

Signed by Dr

Signature

Date

13/2/25

PLEASE PRINT

13/2/25

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 965643



Section A.

Description of Waste/Material

NON HAZ
SOIL + STONE

Vehicle Reg. No.

GN16FHW

Cubic Metres

In Words

1 X LOAD

GROSS

TARE

NETT

Driver's Name

LVIN6

CLIENT
SIC

41.20/2

EWC

17.05.04

Section B. Current Holder of Waste/Material/Collection Point

Name

SPOONERS ENVIRONMENT CONSULTANCY

Address

81 WILKINSHAW RD, HITCHIN, SG5 1PZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTBRAY

Address

N/ WOOLWICH RD, SILVERDOWN, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We cannot be held responsible for any damage to or loss of property caused by our vehicles while delivering material to your site.

Signed by Driver

Signed by Customer

Date

14/2/25

PLEASE PRINT

14/2/25

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 965644



Section A.

Description of Waste/Material

NON HAZ
SOIL + STONE

Vehicle Reg. No.

GN16FHW

Cubic Metres

In Words

1 V2 UAD

GROSS

TARE

NETT

Driver's Name

LWH6

CLIENT
SIC

41-2012

EWC

17-05-04

Section B.

Current Holder of Waste/Material/Collection Point

Name

SEVENOAKS ENVIRONMENTAL SERVICES

Address

21 WILKINSON RD, HEATHAM, SE5 1P2

Waste Reg. No. (if applicable)

Section C.

Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D.

Authorised Tip / Delivery Point / Daywork

Name

KELTBRAY

Address

N/ WOOLWICH RD, SILVERTOWN, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

I.E. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances accept return and claim for damaged or lost material. Your signature has been given. The Customer's signature has been given.

Signed by Driver

Date

14/4/25

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

**MARK LUCK LIMITED**

Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 969261

**Section A.**

Description of Waste/Material

NON HAZ

Soil & Stone

CLIENT
SIC

41 20/2

EWG

7 0 5 0 4

Vehicle Reg. No.

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

Section B. Current Holder of Waste/Material/Collection Point

Name

Address

Waste Reg. No (if applicable)

Section C. Person Collecting Waste
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT

nts, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this
freeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We request
entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has
responsibility for damage caused by our vehicles while delivering material to your site.

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE



Nº 971294

Section A.

Description of Waste/Material

Haz soil +
conc

Vehicle Reg. No.

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

CLIENT
SIC

EWC

Section B. Current Holder of Waste/Material/Collection Point

Name

Address

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Signed by D

Signed on behalf of Customer

Date

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

Waste Soil Movement Sheet

keltbray Environmental

Part A Notification details

1 Consignment note code:

W H I N B U / S H O O I

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

4 The waste will be taken to (name, address and postcode):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Site Preparation 2 SIC for the process giving rise to the waste

3. Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170106		19 Tonnes	SEE REPORT	Hazardous Concrete	HP001, HP101, HP103

Part C Carrier's details

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here: ☐)

1. Carrier Name:

On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD
RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE

2. Carrier registration no./reason for exemption:
CBDU90780

3. Vehicle Registration No.

GF68VX

Signature

Date 03/03/2025 Time 1340

Part D Consignor's details

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: Mark Luck/Seven Oaks

Seven Oaks Enviro

81 Whinbush Road

Hithchen SG5 1PZ Signature

Date 03/03/2025 Time 1340

Part E Consignee's details (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170106		accepted	R5

1. I received this waste at the address given in A4 on:

Date Time

2. Vehicle Registration No. (or mode of transport if not road):

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB

Signature

Date Time

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s).

EA/EPR/3035QC

authorises the management of the waste described in B at the address given in A4.

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 969554

Section A.

Description of Waste/Material

HAZ

Soil - CONCRETE

CLIENT
SIC

43.12/

EWC

07.01.06

Vehicle Reg. No.

G269 XSV

Cubic Metres

In Words

1 x 5000

GROSS

TARE

NETT

Driver's Name

R. C

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENJOAKS ENVIRONMENTAL CONSULTANCY LTD

Address

81 WHITBUSH RD, MITCHELL

Waste Reg. No (if applicable)

SSS 1PZ

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

LEWIS BRAY

Address

SILVERDOW

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Signed by Driver

Signed on behalf of

Date

4/3/25

PLEASE

Customers ordering vehicles off the public

entirely at their own risk

Waste Soil Movement Sheet

G

Part A Notification details

1 Consignment note code: **W H I N B U / S H 0 0 2**

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
**Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ**

4 The waste will be taken to (name, address and postcode):
**Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB**

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Site Preparation 2 SIC for the process giving rise to the waste: **4 3 1 2 0**

3. Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170106		19 Tonnes	SEE REPORT	Hazardous Concrete	HP001, HP101, HP103

Part C Carrier's details

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

1. Carrier Name: **Paul Carter**
On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE

2. Carrier registration no./reason for exemption: CBDU90780

3. Vehicle Registration No. **G269 XSV**

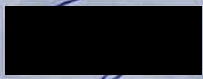
Signature: 
Date: **04/03/2025** Time: **1200**

Part D Consignor's details

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: **Mark Luck/Seven Oaks**
Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

Signature: 
Date:  Time: 

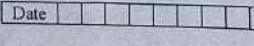
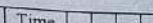
Part E Consignee's details (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170106 170106		accepted	R5

1. I received this waste at the address given in A4 on: Date:  Time: 

2. Vehicle Registration No. (or mode of transport if not road):
Name: **Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB**

3. Where waste is rejected please provide details:
I certify that waste management licence/permit/authorised exemption no(s): **EA/EPR/3035QC**
authorises the management of the waste described in B at the address given in A4.

Signature: 
Date:  Time: 



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE



Section A.

Description of Waste/Material

HAZARDOUS
CONCRETE/
SOIL

CLIENT
SIC

43.12/□

EWC

17.01.06

Vehicle Reg. No.

GN16FHW

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

LUNN

Section B. Current Holder of Waste/Material/Collection Point

Name

Address

Waste Reg. No (if applicable)

SEVENOAKS ENVIRONMENTAL CONSULTANCY
81 WHINBUSH RD, BIRCHON, S65 1PZ

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given.

Signed by

Date

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

Waste Soil Movement Sheet

keltbray Environmental

Part A Notification details

1 Consignment note code: **W H I N B U / S H 0 0 6**

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
Seven Oaks Enviro
81 Whinbush Road
Hitchen SG5 1PZ

4 The waste will be taken to (name, address and postcode):
Keltbray Environmental Ltd,
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Site Preparation 2 SIC for the process giving rise to the waste

3 Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170106		19	SEE REPORT	Hazardous Concrete	HP001, HP101, HP103

Part C Carrier's details

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

1. Carrier Name: **Mark Luck/Seven Oaks**
 On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD
 RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE

2. Carrier registration no./reason for exemption:
 CBDU90780

3. Vehicle Registration No. **G N16 FHW**

Signature

Date **10/10/2025** Time

Part D Consignor's details

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: **Mark Luck/Seven Oaks**
Seven Oaks Enviro
81 Whinbush Road
Hitchen SG5 1PZ Signature

Date **10/10/2025** Time

Part E Consignee's details (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170106		accepted	R5

1. I received this waste at the address given in A4 on:

Date Time

2. Vehicle Registration No. (or mode of transport if not road):

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Keltbray Environmental Ltd,
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB

Signature

Date Time

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s).

EA/EPR/3035QC

authorises the management of the waste described in B at the address given in A4.



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Sol's
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

No 969267



Section A.

Description of Waste/Material

CONCRETE & SOIL
HAZ

CLIENT
SIC

41 20/2

EWC

07 01 06

Vehicle Reg. No.

CF74USK

Cubic Metres

In Words

1 GRAB

GROSS

TARE

NETT

Driver's Name

SIMON

Section B. Current Holder of Waste/Material/Collection Point

Name SEVEN OAKS ENVIRONMENTAL

Address 81 WHINBUSH RD

Waste Reg. No. (if applicable) HITCHEN SGS

Section C. Person Collecting Waste

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

ICELTBAY

Address

Authorised Tip No. (if applicable)

SILVERTOWN

Waiting time on Site/Daywork

616

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Signature

Date

5/3/25

PLEASE PRINT

5/3/25

Customers ordering vehicles off the public roads do so entirely at their own risk

Waste

Part A Note

1. Consignment note code

2. The waste description (name, address)

Seven Oaks Environmental
81 Whinbush Rd
Hitchen SG5

Part B Description

1. The process generating the waste

3. Waste Details

Description of Waste

Contaminated Soil

Part C Carrier

(If more than one carrier, complete a separate schedule of carrier)

1. Carrier Name: On behalf of MARK LUCK LIMITED

2. Carrier registration number: CBDU90780

3. Vehicle Registration

Signature

Date 6/5/25

Part E Consignment

Individual EWC code received (kg)

170503 170104

1. I received this waste

2. Vehicle Registration

3. Where waste is rejected I certify that waste management no(s).

EA/EPR/3035QC
authorises the management given in A4.

Waste Soil Movement Sheet

Part A Notification details

1 Consignment note code: **W H I N B U / S H 0 0 7**

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Seven Oaks Enviro
81 Whimbush Road
Hitchin SG5 1PZ

4 The waste will be taken to (name, address and postcode):

Keltbray Environmental Ltd.
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Site Preparation 2 SIC for the process giving rise to the waste

3 Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170106		19	SEE REPORT	Hazardous Concrete	HP001, HP101, HP103

Part C Carrier's details

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

1. Carrier Name: **Simon Groombridge**
On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD
RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE

2. Carrier registration no./reason for exemption:
CBDU90780

3. Vehicle Registration No. **GF745K**

Signature: [Redacted]

Date: [Redacted]

Part D Consignor's details

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: **Mark Luck/Seven Oaks**
Seven Oaks Enviro
81 Whimbush Road
Hitchin SG5 1PZ

Signature

Date: [Redacted] Time: [Redacted]

Part E Consignee's details (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170103 170106		accepted	R5

1. I received this waste at the address given in A4 on:

Date: [Redacted] Time: [Redacted]

2. Vehicle Registration No. (or mode of transport if not road):

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Keltbray Environmental Ltd.
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB

Signature

Date: [Redacted] Time: [Redacted]

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s):

EA/EPR/3035QC

authorises the management of the waste described in B at the address given in A4.

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wasted Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 733245

Section A.

Description of Waste/Material

Non Haz GRAB bed
M/ACLIENT
SIC☐☐☐☐/

EWC

170504

Vehicle Reg. No.

ELU7UXB

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

JAMES

Section B.

Current Holder of Waste/Material/Collection Point

Name

Sevenoaks Enviro

Address

81 WHINBUSH ROAD SG5 1PZ

Waste Reg. No (if applicable)

Section C.

Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D.

Authorised Tip / Delivery Point / Daywork

Name

Kellogg

Address

Pleuston Wharf LG6 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

8.00AM

Departure Time

9.00AM

Allowance/TT

Hours Chargeable

1HR

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Signed by Driver

Date

6/3/25

PLEASE PRINT

6/3/25

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 968158



Section A.

Description of Waste/Material

Non Haz

Vehicle Reg. No.

GF681SL

Cubic Metres

In Words

Grab

GROSS

TARE

NETT

Driver's Name

Conor

CLIENT
SIC

412011

EWC

170504

Section B. Current Holder of Waste/Material/Collection Point

Name

Sevensoaks enviro

Address

Whimbush RD Hitchin

Waste Reg. No (if applicable)

Section C. Person Collecting Waste
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Keltbray

Address

Silverton

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed

Date

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Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613285

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 733246

Section A.

Description of Waste/Material

SWISS CASH CARD
NON MAZ

Vehicle Reg. No. ECU7 UAS

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name JAMES

CLIENT
SIC

☐ ☐ ☐ ☐ / ☐

EWC

17 05 04

Section B.

Current Holder of Waste/Material/Collection Point

Name

SEVEN DAYS ENVIRONMENTAL

Address

81 WHITMAN ROAD

SGS 1P2

Waste Reg. No (if applicable)

Section C.

Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Keltbray

Address

PLESTON WHARF E16 2AD

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality once the vehicle has been loaded and a clear signature has been given. We cannot accept any liability for damage to or loss of goods or property.

Signed by Driver

Date

6/1/25

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk



MARK LUCK LIMITED

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

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Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE



Section A.

Description of Waste/Material

1 GRAB LOAD
NON HAZ MUCK
AWAY

Vehicle Reg. No.

EX24 VTZ

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

ALAN

CLIENT
SIC

☐ ☐ ☐ ☐ / ☐

EWC

17 05 04

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENOAKS ENVIRONMENTAL

Address

81 WHINBUSH ROAD SG5 1PLZ

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTBRAY PLASTOW WHARF
E16 2AA

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed by Dr

Sig

Date

7-3-25

PLEASE PRINT

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**MARK LUCK LIMITED**

Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk
All Aggregates - Recycled Materials - Site Clearance - T/Soils



Nº 968164

Section A.

Description of Waste/Material

Non haz

CLIENT
SIC

41 20 1

EWC

17 05 04

Vehicle Reg. No.

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

Section B. Current Holder of Waste/Material/Collection Point

Name

Address

Waste Reg. No (if applicable)

Section C. Person Collecting Waste
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Time on Site/Daywork

Time

Distance/TT

Half of Customer

Departure Time

Hours Chargeable

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality of material if it has not been given. We cannot accept responsibility for damage to your site.

Signed by

Date

PLEASE PRINT

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**MARK LUCK LIMITED**

Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 923735**Section A.**

Description of Waste/Material

MAN HAZ
SOIL + STONE

WASTE

44 20/2

W/C

1 1 0 5 0 4

Vehicle Reg. No.

6W16FHW

Cubic Metres

In Words

1 X 10 AD

GROSS

TARE

NETT

Driver's Name

LUK

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Address

51 WILKINBUSH RD, HITCHIN, SG5 1P2

Waste Reg. No (if applicable)

Section C. Person Collecting Waste
MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTBRAY

Address

N1 WORKWICH RD, SILVERTOWN, E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Advance/TT

Hours Chargeable

On behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material before signing. If we cannot under any circumstances accept the material, we will return it to the sender. We cannot accept material if it is not properly packaged or if it is not as described on the ticket.

Signed by Driver

Date

10/5/25

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 733249

Section A.

Description of Waste/Material

NON HAZ

SWMUSE GLASS Lcd

CLIENT SIC ☐☐☐☐/

EWC 1 2 0 3 0 4

Vehicle Reg. No. EW17 UXB

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name JAMES

Section B. Current Holder of Waste/Material/Collection Point

Name SEVENORPS ENVIRO

Address 81 WIMBORNE Road SGS IP2

Waste Reg. No (if applicable)

Section C. Person Collecting Waste SIC Code 49.41

MARK LUCK LIMITED

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name Keltbray

Address PLOTON WMACT G16

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed by Driver

Customer

Date 11/3/25

PLEASE PRINT

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**MARK LUCK LIMITED**

Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 969292**Section A.**

Description of Waste/Material

NON HAZ

SOIL & STONE

CLIENT

SIC

41-20/2

EWC

17-05-04

Vehicle Reg. No. GF7JUK

Cubic Metres

In Words 1 GRAB

GROSS

TARE

NETT

Driver's Name SIMON

Section B. Current Holder of Waste/Material/Collection Point

Name SEUENOAKS ENVIRONMENTAL

Address 81 WHINBUSH RD

Waste Reg. No. (if applicable) HITCHEN SCS

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

KELTRAY

Address

Authorised Tip No. (if applicable)

SILERTOWN

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the material has been signed for. We accept no liability for damage caused by our vehicles or drivers. Please ensure the site and a clear signature has been obtained.

Signed

Date

17/3/25

Customers ordering vehicles off the public roads do so entirely at their own risk



ction A.

NON HAZ
SOGL + STON 6

41.20/2

17.05.04

GN16fHW

In Words

TARE

Driver's Name

Name SYMBIONESE ENVIRONMENTAL CONSULTANCY

Address 81 WHITINGDALE RD, HITCHIN, SG5 1PZ

SIC Code 49.41

Registered Waste Carrier No. CBDU90780
Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point

Section D. Authorised Tip / Delivery Point / Daywork
Name KEITH BAY
Address 11111111

Name WELTBAY

Address N/ WOODWICH M, SILVERTOWN, E16 2AP

Authorised Tip No. (if applicable) _____

Waiting time on Site/Daywork _____

Arrival Time _____

Authorized Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Allowance/TT

Departure Time

ned on behalf of Customer

Time	Hours Chargeable
10:00	1.00
11:00	1.00
12:00	1.00
13:00	1.00
14:00	1.00
15:00	1.00
16:00	1.00
17:00	1.00
18:00	1.00
19:00	1.00
20:00	1.00
21:00	1.00
22:00	1.00
23:00	1.00
24:00	1.00
25:00	1.00
26:00	1.00
27:00	1.00
28:00	1.00
29:00	1.00
30:00	1.00
31:00	1.00
32:00	1.00
33:00	1.00
34:00	1.00
35:00	1.00
36:00	1.00
37:00	1.00
38:00	1.00
39:00	1.00
40:00	1.00
41:00	1.00
42:00	1.00
43:00	1.00
44:00	1.00
45:00	1.00
46:00	1.00
47:00	1.00
48:00	1.00
49:00	1.00
50:00	1.00
51:00	1.00
52:00	1.00
53:00	1.00
54:00	1.00
55:00	1.00
56:00	1.00
57:00	1.00
58:00	1.00
59:00	1.00
60:00	1.00
61:00	1.00
62:00	1.00
63:00	1.00
64:00	1.00
65:00	1.00
66:00	1.00
67:00	1.00
68:00	1.00
69:00	1.00
70:00	1.00
71:00	1.00
72:00	1.00
73:00	1.00
74:00	1.00
75:00	1.00
76:00	1.00
77:00	1.00
78:00	1.00
79:00	1.00
80:00	1.00
81:00	1.00
82:00	1.00
83:00	1.00
84:00	1.00
85:00	1.00
86:00	1.00
87:00	1.00
88:00	1.00
89:00	1.00
90:00	1.00
91:00	1.00
92:00	1.00
93:00	1.00
94:00	1.00
95:00	1.00
96:00	1.00
97:00	1.00
98:00	1.00
99:00	1.00
100:00	1.00

IT NAME

To Customers, Authorised Agents, Representatives, or Resellers, we cannot under any circumstances accept or return any material, agreeing quantity, unless it has been given. We cannot accept

Signed by Driver

Date _____

Customers order

rest - Please read this receipt note. We regret a clear signature has

PLEASE PRINT

PLEASE PRINT

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 976169

Section A.

Description of Waste/Material

Non haz
Soil and Stone

Vehicle Reg. No.

GL67LCK

Cubic Metres

In Words

1 x load

GROSS

TARE

NETT

Driver's Name

James

CLIENT
SIC

42 11 /

EWC

17 05 04

Section B. Current Holder of Waste/Material/Collection Point

Name

Sevenoaks Environmental

Address

81 Whitbush Rd Hitchin

Waste Reg. No (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Kellbrey

Address

Plaxton Wharf Silver town

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

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Signed by Driver

Date

PLEASE PRINT

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**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 968538

**Section A.**

Description of Waste/Material

~~5000~~ 5000 Hnz loadsCLIENT
SIC

41 20/2

EWC

17 05 03
07 06 08

Vehicle Reg. No.

G218 HXX

Cubic Metres

In Words

1 Load

GROSS

TARE

NETT

Driver's Name

Paul T

Section B.

Current Holder of Waste/Material/Collection Point

Name

Sevenoaks Environmental

Address

81 Whinbush road

Waste Reg. No (if applicable)

Hitchin SG5 1PZ

Section C.

Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D.

Authorised Tip / Delivery Point / Daywork

Name

Keffbray

Address

North Woolwich rd Silverdown

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We Cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Signed by Driver

Signed on behalf of Customer

Date

18/3/23

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

Waste Soil Movement Sheet

keltbray Environmental

G

Part A Notification details

1 Consignment note code:

W H I N B U / S H O I 2

4 The waste will be taken to (name, address and postcode):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Site Preparation 2 SIC for the process giving rise to the waste

4 3 1 2 0

3. Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	17 03 03		19	SEE REPORT	Hazardous Soil	HP001, HP101, HP103

Part C Carrier's details

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

1. Carrier Name: ALI TIDBURY

On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD
RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE

2. Carrier registration no./reason for exemption:
CBDU90780

3. Vehicle Registration No. SJ18 HXU

Sign

Date 18 03 2025 Time 09:10

Part D Consignor's details

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: Mark Luck/Seven Oaks
Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

Signature: [Redacted]
Date 18 03 2025 Time 09:10

Part E Consignee's details (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170503		accepted	R5

1. I received this waste at the address given in A4 on:

Date Time

2. Vehicle Registration No. (or mode of transport if not road):

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB

Signature

Date Time

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s):

EA/EPR/3035QC

authorises the management of the waste described in B at the address given in A4.

**MARK LUCK LIMITED**

Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 969296**Section A.**

Description of Waste/Material

HAL

SOIL & STONE

CLIENT
SIC

41 20/2

EWC

17 03 05

Vehicle Reg. No.

GF74SK

Cubic Metres

In Words

19.28

GROSS

TARE

NETT

Driver's Name

SIMON

Section B. Current Holder of Waste/Material/Collection Point

Name

SEVENOAKS ENVIRONMENTAL

Address

81 WHIZBUSH RD

Waste Reg. No (if applicable)

HITCHEN SG5 1PZ

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

09.15

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We regret we cannot under any circumstances entertain any claims concerning material delivered to site and a clear signature has been given.

Signed

Date

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

Waste Soil Movement Sheet

G

Part A Notification details

1 Consignment note code:

W H I N B U / S H O I

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

4 The waste will be taken to (name, address and postcode):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Site Preparation 2 SIC for the process giving rise to the waste

4 3 1 2 0

3. Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170306		19	SEE REPORT	Hazardous Soil	HP001, HP101, HP103

Part C Carrier's details

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here: ☐)

1. Carrier Name: Simon Groombridge
On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD
RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE

2. Carrier registration no./reason for exemption:
CBDU90780

3. Vehicle Registration No. 9F1743K

Signature

Date 18032025 Time

Part D Consignor's details

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: Mark Luck/Seven Oaks Enviro

81 Whinbush Road

Hithchen SG5 1PZ Signature

Date Time

Part E Consignee's details (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170503		accepted	R5

1. I received this waste at the address given in A4 on:

Date Time

2. Vehicle Registration No. (or mode of transport if not road):

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB

Signature

Date Time

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s):

EA/EPR/3035QC

authorises the management of the waste described in B at the address given in A4



MARK LUCK LIMITED
Mark Luck Haulage Yard
Railway Sidings Wested Lane Swanley Kent BR8 8EE
Telephone: (01322) 613355 Fax: (01322) 613265
Website: www.markluckltd.co.uk
E-mail: info@markluckltd.co.uk

Nº 975008



All Aggregates - Recycled Materials - Site Clearance - T/Soils
CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Section A.

Description of Waste/Material

CONTAMINATED
SOIL / concrete

Vehicle Reg. No.

6N16FHW

Cubic Metres

In Words

1 X LOAD

GROSS

TARE

NETT

Driver's Name

L V N 6

CLIENT
SIC

43 12 /

EWG

17 01 06

Section B.

Current Holder of Waste/Material/Collection Point

Name

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Address

81 WATFORD RD, HITCHIN, SG5 1P2

Waste Reg. No (if applicable)

Section C.

Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D.

Authorised Tip / Delivery Point / Daywork

Name

KELTDAV

Address

N/ WOODHILL M, SILVERDALE E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is as stated. We cannot under any circumstances be held responsible for anything that has not been given. We Cannot sign this receipt note. We regret the site and a clear signature has been given.

Signed by Driver

Date

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

Waste Soil Movement Sheet

Part A Notification details

1 Consignment note code:

W H I N B U / S H O I O

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

4 The waste will be taken to (name, address and postcode):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Site Preparation 2 SIC for the process giving rise to the waste

3. Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170503 170506		19	HWOL	Soil and stone	HP103, HP101, WS01

Part C Carrier's details

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here ☐)

1. Carrier Name: Luke Br066A
On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD
RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE

2. Carrier registration no./reason for exemption:
CBDU90780

3. Vehicle Registration No. GN16FHW

Signature

Date 18/03/2025 Time

Part D Consignor's details

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: Mark Luck/Seven Oaks

Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

Signature

Date 18/03/2025 Time

Part E Consignee's details (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170503		accepted	R5

1. I received this waste at the address given in A4 on:

Date Time

2. Vehicle Registration No. (or mode of transport if not road):

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB

Signature

Date Time

3. Where waste is rejected please provide details.

I certify that waste management licence/permit/authorised exemption no(s):

EA/EPR/3035QC

authorises the management of the waste described in B at the address given in A4.

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 962905

**Section A.**

Description of Waste/Material

Coal Tar
Hatz Load.CLIENT
SIC ☐☐☐☐/ ☐☐EWC ☐☐☐☐-☐☐☐☐Vehicle Reg. No. GF68SL

Cubic Metres

In Words ScabGROSS 29.10TARE 16.28NETT 12.82Driver's Name Conor**Section B. Current Holder of Waste/Material/Collection Point**

Name

Address

Waste Reg. No. (if applicable)

Section C. Person Collecting Waste SIC Code 49.41

MARK LUCK LIMITED

Registered Waste Carrier No. CBDU90760

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this ticket fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt now. We regret we cannot under any circumstances accept any other signature and a client signature has been given. We

Signed by D

Date

19/3/25

PLEASE PRINT

Customers ordering vehicles off the public roads do so



MARK LUCK LIMITED

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 968544



Section A. GROSS LOAD
Description of Waste/Material

Hazardous Concrete

CLIENT SIC 4120/2

EWC 170106

Vehicle Reg. No. GJ18 HXU

Cubic Metres

In Words 1 Load

GROSS

TARE

NETT

Driver's Name Paul T

Section B. Current Holder of Waste/Material/Collection Point

Name Sevensons Environmental

Address 21 Whimbush road Hitchin

Waste Reg. No (if applicable) 5951P2

Section C. Person Collecting Waste SIC Code 48.41

MARK LUCK LIMITED

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name Keltbray, Plaistow Wharf

Address Silvertown E16 2AB

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time 10.45

Departure Time 12.10

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

Aaron Hibbert

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this note fully and inspect material, agreeing quantity, quality and that everything is to your satisfaction, before finally signing this receipt note. We agree we cannot under any circumstances entertain any claims concerning quantity or quality, once the vehicle has left the site and a clear signature has been given. We cannot accept responsibility for damage caused by our vehicles while delivering material to your site.

Customer

Date 19.3.25

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

MARK

MARK LUCK

keltbray Environmental**Waste Soil Movement Sheet**

G

Part A Notification details1 Consignment
note code:

W H I N B U / S H I O Z

2 The waste described below is to be removed from
(name, address, postcode, telephone, e-mail, facsimile):Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

4 The waste will be taken to (name, address and postcode):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB5 The waste producer was (if different from 2) (name, address, postcode,
telephone, e-mail, facsimile):**Part B Description of the Waste**

1 The process giving rise to the waste(s) was: Site Preparation 2 SIC for the process giving rise to the waste

3. Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170106		19	SEE REPORT	Hazardous Concrete	HP001, HP101, HP103

Part C Carrier's details(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)1. Carrier Name: PAUL TIDBURY
On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD
RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE2. Carrier registration no./reason for exemption:
CBDU907803. Vehicle Registration No. 9J18HXU

Signature

Date 19/03/2025 Time 10:43**Part D Consignor's details**I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: Mark Luck/Seven Oaks

Seven Oaks Enviro
81 Whinbush Road
Hithchen SG5 1PZ

Signature

Date 19/03/2025 Time 12:10**Part E Consignee's details** (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170503		accepted	R5

1. I received this waste at the address given in A4 on:

Date 19/03/2025 Time 10:43

2. Vehicle Registration No. (or mode of transport if not road):

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile)

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB

Signature

Date 19/03/2025 Time 10:43

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s):

E/EP/3035QC

authorises the management of the waste described in B at the address given in A4.

**MARK LUCK LIMITED**

Mark Luck Haulage Yard

Railway Sidings Wested Lane Swanley Kent BR8 8EE

Telephone: (01322) 613355 Fax: (01322) 613265

Website: www.markluckltd.co.uk

E-mail: info@markluckltd.co.uk

All Aggregates - Recycled Materials - Site Clearance - T/Soils

CONVEYANCE/CONTROLLED WASTE TRANSFER NOTE

Nº 975013

**Section A.**

Description of Waste/Material

Vehicle Reg. No.

Cubic Metres

In Words

GROSS

TARE

NETT

Driver's Name

CLIENT
SIC

4312/

EWC

070106

Section B. Current Holder of Waste/Material/Collection Point

Name

Address

Waste Reg. No. (if applicable)

Section C. Person Collecting Waste

MARK LUCK LIMITED

SIC Code 49.41

Registered Waste Carrier No. CBDU90780

Issued by KENT COUNTY COUNCIL

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011

Section D. Authorised Tip / Delivery Point / Daywork

Name

Address

Authorised Tip No. (if applicable)

Waiting time on Site/Daywork

Arrival Time

Departure Time

Allowance/TT

Hours Chargeable

Signed on behalf of Customer

PRINT NAME

N.B. To Customers, Authorised Agents, Representatives, or Responsible Persons signing this Delivery Ticket. This is in your interest - Please read this document fully and inspect material, weighing quantity, quality and that everything is to your satisfaction before signing. For the signature of the responsible person. We regret we cannot undertake any other work if the signature is not given. We cannot accept any liability if the signature is not given.

Signed by Driver

Date

PLEASE PRINT

Customers ordering vehicles off the public roads do so entirely at their own risk

Waste Soil Movement Sheet

keltbray Environmental

G

Part A Notification details

1 Consignment note code:

W H I N B U / S H I 0 9

2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):

Seven Oaks Enviro
81 Whinbush Road
Hitchin SG5 1PZ

4 The waste will be taken to (name, address and postcode):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, off North Woolwich Road
West Silvertown, London E16 2AB

5 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

Part B Description of the Waste

1 The process giving rise to the waste(s) was: Site Preparation - 2 SIC for the process giving rise to the waste

4 3 1 2 0

3. Waste Details (where more than one waste type is collected all of the information given below must be completed for each EWC identified)

Description of Waste	List of wastes (EWC code) (6 digits)	Packing Group(s)	Quantity (KG)	The chemical/biological components of the waste and their concentrations are:	Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard Code
Contaminated Soil	170106		19	SEE REPORT	Hazardous Concrete	HP001, HP101, HP103

Part C Carrier's details

(If more than one carrier is used, please attach schedule for subsequent carriers. If a schedule of carriers is attached tick here. ☐)

1. Carrier Name: LUK BROADEN
On behalf of MARK LUCK LIMITED MARK LUCK HAULAGE YARD
RAILWAY SIDINGS, WESTED LANE SWANLEY BR8 8EE

2. Carrier registration no./reason for exemption:
CBDU90780

3. Vehicle Registration No. GW16FHU

Signature LUK B

Date 2010 05 24 Time

Part D Consignor's details

I certify that the information in A, B and C above is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.
I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the waste (England & Wales) regulations 2011

Consignor Name: Mark Luck/
Seven Oaks Enviro
81 Whinbush Road
Hitchin SG5 1PZ Signature [Signature]

Date 2010 05 24 Time

Part E Consignee's details (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received (kg)	Quantity of each EWC code received (kg)	EWC Code accepted/rejected	Waste management operation (R or D code)
170503		accepted	R5

1. I received this waste at the address given in A4 on:

Date Time

2. Vehicle Registration No. (or mode of transport if not road):

Name:

On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Keltbray Environmental Ltd.,
Plaistow Wharf, St Vincent Ferrer Lane, West Silvertown, London E16 2AB

Signature

Date Time

3. Where waste is rejected please provide details:

I certify that waste management licence/permit/authorised exemption no(s)

EA/EPR/3035QC

authorises the management of the waste described in B at the address given in A4.

Appendix G

The Infilled Soakaway

Appendix Gi

The Infilled Soakaway Laboratory Results

Damian Jones
Sevenoaks Environmental Consultancy Ltd
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

Normec DETS Limited
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 25-03297

Site Reference: Hitchin

Project / Job Ref: 6521 Hitchin

Order No: 6521

Sample Receipt Date: 03/03/2025

Sample Scheduled Date: 06/03/2025

Report Issue Number: 1

Reporting Date: 02/04/2025

Authorised by:



Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

For Topsoil and WAC analysis the expanded uncertainty measurement should be considered while evaluating results against compliance values.

Soil Analysis Certificate						
DETS Report No: 25-03297	~Date Sampled	27/02/25				
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1445				
~Site Reference: Hitchin	~TP / BH No	Val01				
~Project / Job Ref: 6521 Hitchin	~Additional Refs	None Supplied				
~Order No: 6521	~Depth (m)	0.40				
Reporting Date: 02/04/2025	DETS Sample No	770075				

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen ⁽⁵⁾	N/a	N/a	ISO17025	Detected				
Sample Matrix ⁽⁵⁾	Material Type	N/a	NONE	Chrysotile present in microscopic cement fragments				
Asbestos Type ⁽⁵⁾	PLM Result	N/a	ISO17025	Chrysotile				
pH	pH Units	N/a	ISO17025	7.8				
Total Cyanide	mg/kg	< 1	NONE	< 1				
Free Cyanide	mg/kg	< 1	NONE	< 1				
Thiocyanate as SCN	mg/kg	< 3	NONE	< 3				
Total Sulphate as SO ₄	mg/kg	< 200	ISO17025	1499				
Total Sulphate as SO ₄	%	< 0.02	ISO17025	0.15				
Sulphide	mg/kg	< 5	NONE	< 5				
Organic Matter (SOM)	%	< 0.1	ISO17025	2.7				
TOC (Total Organic Carbon)	%	< 0.1	ISO17025	1.6				
Antimony (Sb)	mg/kg	< 1	NONE	12.7				
Arsenic (As)	mg/kg	< 2	ISO17025	25				
Barium (Ba)	mg/kg	< 2.5	ISO17025	133.0				
W/S Boron	mg/kg	< 1	NONE	1.2				
Cadmium (Cd)	mg/kg	< 0.2	ISO17025	1.6				
Chromium (Cr)	mg/kg	< 2	ISO17025	28				
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2				
Copper (Cu)	mg/kg	< 4	ISO17025	51				
Lead (Pb)	mg/kg	< 3	ISO17025	402				
Mercury (Hg)	mg/kg	< 1	ISO17025	< 1				
Nickel (Ni)	mg/kg	< 3	ISO17025	35				
Selenium (Se)	mg/kg	< 2	ISO17025	< 2				
Zinc (Zn)	mg/kg	< 3	ISO17025	522				
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				

Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 25-03297	~Date Sampled	27/02/25				
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1445				
~Site Reference: Hitchin	~TP / BH No	Val01				
~Project / Job Ref: 6521 Hitchin	~Additional Refs	None Supplied				
~Order No: 6521	~Depth (m)	0.40				
Reporting Date: 02/04/2025	DETS Sample No	770075				

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	ISO17025	0.14				
Acenaphthylene	mg/kg	< 0.1	ISO17025	0.14				
Acenaphthene	mg/kg	< 0.1	ISO17025	0.18				
Fluorene	mg/kg	< 0.1	ISO17025	0.18				
Phenanthrene	mg/kg	< 0.1	ISO17025	2.37				
Anthracene	mg/kg	< 0.1	ISO17025	0.62				
Fluoranthene	mg/kg	< 0.1	ISO17025	6.43				
Pyrene	mg/kg	< 0.1	ISO17025	5.79				
Benzo(a)anthracene	mg/kg	< 0.1	ISO17025	3.18				
Chrysene	mg/kg	< 0.1	ISO17025	2.49				
Benzo(b)fluoranthene	mg/kg	< 0.1	ISO17025	2.44				
Benzo(k)fluoranthene	mg/kg	< 0.1	ISO17025	1.28				
Benzo(a)pyrene	mg/kg	< 0.1	ISO17025	2.88				
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	ISO17025	1.31				
Dibenz(a,h)anthracene	mg/kg	< 0.1	ISO17025	0.33				
Benzo(ghi)perylene	mg/kg	< 0.1	ISO17025	1.11				
Total EPA-16 PAHs	mg/kg	< 1.6	ISO17025	30.9				

Soil Analysis Certificate - EPH Texas Banded

DETS Report No: 25-03297	~Date Sampled	27/02/25				
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1445				
~Site Reference: Hitchin	~TP / BH No	Val01				
~Project / Job Ref: 6521 Hitchin	~Additional Refs	None Supplied				
~Order No: 6521	~Depth (m)	0.40				
Reporting Date: 02/04/2025	DETS Sample No	770075				

Determinand	Unit	RL	Accreditation	(n)				
EPH Texas (C6 - C8) : HS 1D MS Total	mg/kg	< 0.05	NONE	< 0.05				
EPH Texas (>C8 - C10) : EH 1D Total	mg/kg	< 1	ISO17025	2				
EPH Texas (>C10 - C12) : EH 1D Total	mg/kg	< 1	ISO17025	1				
EPH Texas (>C12 - C16) : EH 1D Total	mg/kg	< 1	ISO17025	3				
EPH Texas (>C16 - C21) : EH 1D Total	mg/kg	< 1	ISO17025	41				
EPH Texas (>C21 - C40) : EH 1D Total	mg/kg	< 6	ISO17025	186				
EPH Texas (C6 - C40) : HS 1D MS+EH 1D Total	mg/kg	< 6	NONE	232				

Waste Acceptance Criteria Analytical Certificate																																				
DETS Report No: 25-03297		~Date Sampled		27/02/25																																
Sevenoaks Environmental Consultancy Ltd		~Time Sampled		1445																																
~Site Reference: Hitchin		~TP / BH No		Val01																																
~Project / Job Ref: 6521 Hitchin		~Additional Refs		None Supplied																																
~Order No: 6521		~Depth (m)		0.40																																
Reporting Date: 02/04/2025		DETS Sample No		770075																																
Determinand		Unit		MDL		Landfill Waste Acceptance Criteria Limits <table><tr><td rowspan="9">Inert Waste Landfill</td><td rowspan="9">Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</td><td rowspan="9">Hazardous Waste Landfill</td></tr><tr><td>3%</td><td>5%</td><td>6%</td></tr><tr><td>--</td><td>--</td><td>10%</td></tr><tr><td>6</td><td>--</td><td>--</td></tr><tr><td>1</td><td>--</td><td>--</td></tr><tr><td>500</td><td>--</td><td>--</td></tr><tr><td>100</td><td>--</td><td>--</td></tr><tr><td>--</td><td>>6</td><td>--</td></tr><tr><td>--</td><td>To be evaluated</td><td>To be evaluated</td></tr></table>				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	3%	5%	6%	--	--	10%	6	--	--	1	--	--	500	--	--	100	--	--	--	>6	--	--	To be evaluated	To be evaluated
Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill																																		
			3%	5%	6%																															
			--	--	10%																															
			6	--	--																															
			1	--	--																															
			500	--	--																															
			100	--	--																															
			--	>6	--																															
			--	To be evaluated	To be evaluated																															
TOC ^{MU}	%	< 0.1	1.6																																	
Loss on Ignition ^{MU}	%	< 0.01	7.20																																	
BTEX ^{MU}	mg/kg	< 0.05	< 0.05																																	
Sum of PCBs	mg/kg	< 0.1	< 0.1																																	
Mineral Oil ^{MU}	mg/kg	< 10	52																																	
Total PAH ^{MU}	mg/kg	< 1.7	31.1																																	
pH ^{MU}	pH Units	N/a	7.8																																	
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	2																																	
Eluate Analysis				2:1	8:1		Cumulative 10:1 * mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)																												
Arsenic ^U		0.0019	0.0029		0.028	0.5	2	25																												
Barium ^U		0.0450	0.0172		0.219	20	100	300																												
Cadmium ^U		< 0.0002	< 0.0002		< 0.002	0.04	1	5																												
Chromium ^U		0.0046	0.0055		0.053	0.5	10	70																												
Copper ^U		0.0120	0.0066		0.075	2	50	100																												
Mercury ^U		< 0.00004	< 0.00004		< 0.0004	0.01	0.2	2																												
Molybdenum ^U		0.0124	0.0049		0.062	0.5	10	30																												
Nickel ^U		0.0028	0.0012		0.0144	0.4	10	40																												
Lead ^U		0.0005	0.0116		0.098	0.5	10	50																												
Antimony ^U		0.0212	0.0110		0.127	0.06	0.7	5																												
Selenium ^U		0.0007	0.0003		0.0038	0.1	0.5	7																												
Zinc ^U		0.013	0.009		0.10	4	50	200																												
Chloride ^U		16	2		46	800	15000	25000																												
Fluoride ^U		< 0.5	< 0.5		< 1	10	150	500																												
Sulphate ^U		398	32		935	1000	20000	50000																												
TDS		727	116		2185	4000	60000	100000																												
Phenol Index ^U		< 0.01	< 0.01		< 0.5	1	-	-																												
DOC ^U		20.5	124		1070	500	800	1000																												
Leach Test Information																																				
Sample Mass (kg)		0.10																																		
Dry Matter (%)		87.7																																		
Moisture (%)		14																																		
Stage 1																																				
Volume Eluate L2 (litres)		0.16																																		
Filtered Eluate VE1 (litres)		0.14																																		
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion																																				
Stated limits are for guidance only and Normec DETS Limited cannot be held responsible for any discrepancies with current legislation																																				
* Normec DETS are accredited for the testing of leachate and not the leachate preparation stage which is unaccredited																																				

Soil Analysis Certificate - Sample Descriptions

DETS Report No: 25-03297	
Sevenoaks Environmental Consultancy Ltd	
~Site Reference: Hitchin	
~Project / Job Ref: 6521 Hitchin	
~Order No: 6521	
Reporting Date: 02/04/2025	

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
770075	Val01	None Supplied	0.40	11.8	Brown sandy gravel with stones and concrete

Moisture content is part of procedure E003 & is not an accredited test

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 25-03297
Sevenoaks Environmental Consultancy Ltd
~Site Reference: Hitchin
~Project / Job Ref: 6521 Hitchin
~Order No: 6521
Reporting Date: 02/04/2025

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

Water Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 25-03297
Sevenoaks Environmental Consultancy Ltd
~Site Reference: Hitchin
~Project / Job Ref: 6521 Hitchin
~Order No: 6521
Reporting Date: 02/04/2025

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	F	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	UF	Biological Oxygen Demand (BOD)	Determination using BOD sensors measuring the change of pressure	E133
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	F	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	F	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	F	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR detection	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	F	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E115
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Acidification, followed by high-temperature oxidation and IR detection.	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

List of HWOL Acronyms and Operators
DETS Report No: 25-03297
Sevenoaks Environmental Consultancy Ltd
~Site Reference: Hitchin
~Project / Job Ref: 6521 Hitchin
~Order No: 6521
Reporting Date: 02/04/2025

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by customer and can affect the validity of results

EPH Texas (C10 - C12) - EH_1D_Total
EPH Texas (C12 - C16) - EH_1D_Total
EPH Texas (C16 - C21) - EH_1D_Total
EPH Texas (C21 - C40) - EH_1D_Total
EPH Texas (C6 - C40) - HS_1D_MS+EH_1D_Total
EPH Texas (C6 - C8) - HS_1D_MS_Total
EPH Texas (C8 - C10) - EH_1D_Total
Mineral Oil (C10 - C40) (BS EN 12457-3) - EH_CU_1D_AL
Total BTEX (BS EN 12457-3) - HS_1D_MS_Total

Parameter	Matrix Type	Expanded Uncertainty Measurement	Unit
TOC	Soil	11	%
Loss on Ignition	Soil	24	%
BTEX	Soil	11	%
Sum of PCBs	Soil	30	%
Mineral Oil	Soil	9	%
Total PAH	Soil	17	%
pH	Soil	0.2	Units
Acid Neutralisation Capacity	Soil	18	%
Clay Content	Soil	15	%
Silt Content	Soil	14	%
Sand Content	Soil	13	%
Loss on Ignition	Soil	24	%
pH	Soil	0.2	Units
Carbonate	Soil	12	%
Total Nitrogen	Soil	12	%
Phosphorus (Extractable)	Soil	24	%
Potassium (Extractable)	Soil	20	%
Magnesium (Extractable)	Soil	26	%
Zinc	Soil	26	%
Copper	Soil	24	%
Nickel	Soil	29	%
Available Sodium	Soil	23	%
Available Calcium	Soil	23	%
Electrical Conductivity	Soil	10	%

Certificate Key

<u>Symbol</u>	<u>Description</u>
F	Filtered sample
UF	Unfiltered sample
D	Dried sample
AR	As received sample
RL	Reporting limit
~	Sample details provided by customer and can affect the validity of results
M/S	Missing Sample
n	Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation
S	Subcontracted analysis
U	UKAS accredited test

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DETS Report No: 25-03789

Site Reference: Hitchin

Project / Job Ref: 6521 Hitchin

Order No: 6521

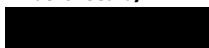
Sample Receipt Date: 03/03/2025

Sample Scheduled Date: 03/04/2025

Report Issue Number: 1

Reporting Date: 09/04/2025

Authorised by:



Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Soil Analysis Certificate						
DETS Report No: 25-03789	~Date Sampled	27/02/25				
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1445				
~Site Reference: Hitchin	~TP / BH No	VAL01				
~Project / Job Ref: 6521 Hitchin	~Additional Refs	None Supplied				
~Order No: 6521	~Depth (m)	0.40				
Reporting Date: 09/04/2025	DETS Sample No	771946				

Determinand	Unit	RL	Accreditation				
Asbestos Quantification ⁽⁵⁾	%	< 0.001	ISO17025	0.003			

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 25-03789
Sevenoaks Environmental Consultancy Ltd
~Site Reference: Hitchin
~Project / Job Ref: 6521 Hitchin
~Order No: 6521
Reporting Date: 09/04/2025

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

List of HWOL Acronyms and Operators
DETS Report No: 25-03789
Sevenoaks Environmental Consultancy Ltd
~Site Reference: Hitchin
~Project / Job Ref: 6521 Hitchin
~Order No: 6521
Reporting Date: 09/04/2025

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by customer and can affect the validity of results

Det - Acronym

Certificate Key

<u>Symbol</u>	<u>Description</u>
F	Filtered sample
UF	Unfiltered sample
D	Dried sample
AR	As received sample
RL	Reporting limit
~	Sample details provided by customer and can affect the validity of results
M/S	Missing Sample
S	Subcontracted analysis
U	UKAS accredited test

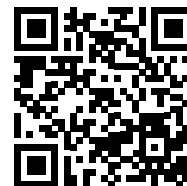
Appendix Gii

Infilled Soakaway Material WM3

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)



9GKK7-O6MYR-4FMRL

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

5551 - Whinbush (Soakaway Material)

Description/Comments

Project

5551 - Whinbush (Soakaway Material)

Site

Classified by

Name: **Rianna Cripps**
Date: **25 Nov 2025 14:29 GMT**
Telephone: **01892 822999**
Company: **Sevenoaks Environmental Consultants**
145a Hastings Rd
Pembury
Tunbridge Wells
TN2 4JU

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

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification

Date

06 Jun 2024

Next 3 year Refresher due by Jun 2027

Purpose of classification

2 - Material Characterisation

Address of the waste

81/81A Whinbush Road, Hitchin

Post Code SG5 1PZ

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Removal of old soakaway

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

Removal of old soakaway

Description of the waste

Soakaway infill material (Made Ground)

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results			Page
					Inert	SNRHW	Hazardous	
1	Val01-0.40-27/02/2025	0.40	Non Hazardous		Fail	Fail	N/A	3

Related documents

#	Name	Description
1	25-03297.1.batch	DETS South .batch file used to populate the Job
2	25-03297.1.hwol	DETS South .hwol file used to populate the Job
3	25-03789.1.hwol	DETS South .hwol file used to populate the Job
4	SEC Template - RC	waste stream template used to create this Job

WAC results

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate the samples in this Job: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

Report

Created by: Rianna Cripps

Created date: 25 Nov 2025 14:29 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	7
Appendix B: Rationale for selection of metal species	8
Appendix C: Version	9

Classification of sample: Val01-0.40-27/02/2025

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

Sample details

Sample name:	LoW Code:
Val01-0.40-27/02/2025	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11.8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11.8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	asbestos 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		30 mg/kg		30 mg/kg	0.003 %		
2	asbestos fibres detected (Yes/No)				Yes					
			ACM_FIBRES							
3	antimony { antimony trioxide }				12.7 mg/kg	1.197	13.409 mg/kg	0.00134 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
4	arsenic { arsenic trioxide }				25 mg/kg	1.32	29.113 mg/kg	0.00291 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
5	barium { barium diboron tetraoxide }				133 mg/kg	1.623	190.443 mg/kg	0.019 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
6	boron { diboron trioxide }				1.2 mg/kg	3.22	3.408 mg/kg	0.000341 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
7	cadmium { cadmium oxide }				1.6 mg/kg	1.142	1.612 mg/kg	0.000161 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
8	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				28 mg/kg	1.462	36.095 mg/kg	0.00361 %	✓	
		215-160-9	1308-38-9							
9	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD
	024-017-00-8									
10	copper { dicopper oxide; copper (I) oxide }				51 mg/kg	1.126	50.645 mg/kg	0.00506 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
11	lead { lead chromate }			1	402 mg/kg	1.56	553.054 mg/kg	0.0355 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
12	mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
13	nickel { nickel chromate }				35 mg/kg	2.976	91.877 mg/kg	0.00919 %	✓	
	028-035-00-7	238-766-5	14721-18-7							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
14	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg		<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5								
15	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				522 mg/kg	4.398	2024.823 mg/kg		0.202 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
16	TPH (C6 to C40) petroleum group				232 mg/kg		204.624 mg/kg		0.0205 %	✓	
			TPH								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg		<0.000188 %		<LOD
	006-007-00-5										
18	pH				7.8 pH		7.8 pH		7.8 pH		
			PH								
19	naphthalene				0.14 mg/kg		0.123 mg/kg		0.0000123 %	✓	
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				0.14 mg/kg		0.123 mg/kg		0.0000123 %	✓	
		205-917-1	208-96-8								
21	acenaphthene				0.18 mg/kg		0.159 mg/kg		0.0000159 %	✓	
		201-469-6	83-32-9								
22	fluorene				0.18 mg/kg		0.159 mg/kg		0.0000159 %	✓	
		201-695-5	86-73-7								
23	phenanthrene				2.37 mg/kg		2.09 mg/kg		0.000209 %	✓	
		201-581-5	85-01-8								
24	anthracene				0.62 mg/kg		0.547 mg/kg		0.0000547 %	✓	
		204-371-1	120-12-7								
25	fluoranthene				6.43 mg/kg		5.671 mg/kg		0.000567 %	✓	
		205-912-4	206-44-0								
26	pyrene				5.79 mg/kg		5.107 mg/kg		0.000511 %	✓	
		204-927-3	129-00-0								
27	benzo[a]anthracene				3.18 mg/kg		2.805 mg/kg		0.00028 %	✓	
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				2.49 mg/kg		2.196 mg/kg		0.00022 %	✓	
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				2.44 mg/kg		2.152 mg/kg		0.000215 %	✓	
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				1.28 mg/kg		1.129 mg/kg		0.000113 %	✓	
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				2.88 mg/kg		2.54 mg/kg		0.000254 %	✓	
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				1.31 mg/kg		1.155 mg/kg		0.000116 %	✓	
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				0.33 mg/kg		0.291 mg/kg		0.0000291 %	✓	
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				1.11 mg/kg		0.979 mg/kg		0.0000979 %	✓	
		205-883-8	191-24-2								
35	polychlorobiphenyls; PCB				<0.1 mg/kg		<0.1 mg/kg		<0.00001 %		<LOD
	602-039-00-4	215-648-1	1336-36-3								
36	monohydric phenols				<2 mg/kg		<2 mg/kg		<0.0002 %		<LOD
			P1186								
Total:									0.306 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 12500 mg/kg (1.25%)
because: No liquid phase

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0205%)

WAC results for sample: Val01-0.40-27/02/2025

WAC Settings: samples in this Job constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the Inert (Inert waste landfill) criteria.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1.6	3	5	6
2	LOI (loss on ignition)	%	7.2	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.05	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	52	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	31.1	100	-	-
7	pH	pH	7.8	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	2	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.028	0.5	2	25
10	barium	mg/kg	0.219	20	100	300
11	cadmium	mg/kg	<0.002	0.04	1	5
12	chromium	mg/kg	0.053	0.5	10	70
13	copper	mg/kg	0.075	2	50	100
14	mercury	mg/kg	<0.0004	0.01	0.2	2
15	molybdenum	mg/kg	0.062	0.5	10	30
16	nickel	mg/kg	0.0144	0.4	10	40
17	lead	mg/kg	0.098	0.5	10	50
18	antimony	mg/kg	0.127	0.06	0.7	5
19	selenium	mg/kg	0.0038	0.1	0.5	7
20	zinc	mg/kg	0.1	4	50	200
21	chloride	mg/kg	46	800	15,000	25,000
22	fluoride	mg/kg	<1	10	150	500
23	sulphate	mg/kg	935	1,000	20,000	50,000
24	phenol index	mg/kg	<0.5	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	1070	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	2185	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail

Appendix A: Classifier defined and non GB MCL determinands

• **asbestos fibres detected (Yes/No)** (CAS Number: ACM_FIBRES)

Description/Comments: not classified, information only

Data source: N/A

Data source date: 15 Jan 2020

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

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

GB MCL index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

• **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

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

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

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

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

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

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

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

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

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

■ **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

■ **monohydric phenols** (CAS Number: P1186)

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

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

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

arsenic {arsenic trioxide}

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

barium {barium diboron tetraoxide}

Next worst case given no Chromium VI

boron {diboron trioxide}

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

cadmium {cadmium oxide}

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

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

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]}

Next worst case given no Chromium VI

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

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2025.322.6869.12419 (18 Nov 2025)

HazWasteOnline Database: 2025.321.6868.12417 (17 Nov 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

Appendix H

Hydrocarbon-Stained Soil Test Results

Damian Jones
Sevenoaks Environmental Consultancy Ltd
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

Normec DETS Limited
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 25-02781

Site Reference: Hitchin

Project / Job Ref: 5551

Order No: 5551

Sample Receipt Date: 13/03/2025

Sample Scheduled Date: 13/03/2025

Report Issue Number: 1

Reporting Date: 21/03/2025

Authorised by:

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Soil Analysis Certificate - EPH Texas Banded

DETS Report No: 25-02781	~Date Sampled	10/03/25	10/03/25	10/03/25	10/03/25
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1045	1050	1055	1100
~Site Reference: Hitchin	~TP / BH No	SS01A	SS01B	SS01C	SS01D
~Project / Job Ref: 5551	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5551	~Depth (m)	1.00	0.30	0.40	0.55
Reporting Date: 21/03/2025	DETS Sample No	768377	768378	768379	768380

Determinand	Unit	RL	Accreditation	(n)			
EPH Texas (C6 - C8) : HS 1D MS Total	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10) : EH 1D Total	mg/kg	< 1	MCERTS	7	< 1	2	< 1
EPH Texas (>C10 - C12) : EH 1D Total	mg/kg	< 1	MCERTS	143	< 1	30	5
EPH Texas (>C12 - C16) : EH 1D Total	mg/kg	< 1	MCERTS	1124	< 1	564	132
EPH Texas (>C16 - C21) : EH 1D Total	mg/kg	< 1	MCERTS	824	< 1	424	164
EPH Texas (>C21 - C40) : EH 1D Total	mg/kg	< 6	MCERTS	280	< 6	140	71
EPH Texas (C6 - C40) : HS 1D MS+EH 1D Total	mg/kg	< 6	NONE	2378	< 6	1160	372

Soil Analysis Certificate - Volatile Organic Compounds (VOC)

DETS Report No: 25-02781	~Date Sampled	10/03/25			
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	1045			
~Site Reference: Hitchin	~TP / BH No	SS01A			
~Project / Job Ref: 5551	~Additional Refs	None Supplied			
~Order No: 5551	~Depth (m)	1.00			
Reporting Date: 21/03/2025	DETS Sample No	768377			

Determinand	Unit	RL	Accreditation				
Dichlorodifluoromethane	µg/kg	< 5	MCERTS	< 5			
Vinyl Chloride	µg/kg	< 5	MCERTS	< 5			
Chloromethane	µg/kg	< 10	MCERTS	< 10			
Chloroethane	µg/kg	< 5	MCERTS	< 5			
Bromomethane	µg/kg	< 10	MCERTS	< 10			
Trichlorofluoromethane	µg/kg	< 5	MCERTS	< 5			
1,1-Dichloroethene	µg/kg	< 5	MCERTS	< 5			
MTBE	µg/kg	< 5	MCERTS	< 5			
trans-1,2-Dichloroethene	µg/kg	< 5	MCERTS	< 5			
1,1-Dichloroethane	µg/kg	< 5	MCERTS	< 5			
cis-1,2-Dichloroethene	µg/kg	< 5	MCERTS	< 5			
2,2-Dichloropropane	µg/kg	< 5	MCERTS	< 5			
Chloroform	µg/kg	< 5	MCERTS	< 5			
Bromochloromethane	µg/kg	< 5	MCERTS	< 5			
1,1,1-Trichloroethane	µg/kg	< 5	MCERTS	< 5			
1,1-Dichloropropene	µg/kg	< 10	MCERTS	< 10			
Carbon Tetrachloride	µg/kg	< 5	MCERTS	< 5			
1,2-Dichloroethane	µg/kg	< 5	MCERTS	< 5			
Benzene	µg/kg	< 2	MCERTS	< 2			
1,2-Dichloropropane	µg/kg	< 5	MCERTS	< 5			
Trichloroethene	µg/kg	< 5	MCERTS	< 5			
Bromodichloromethane	µg/kg	< 5	MCERTS	< 5			
Dibromomethane	µg/kg	< 5	MCERTS	< 5			
TAME	µg/kg	< 5	MCERTS	< 5			
cis-1,3-Dichloropropene	µg/kg	< 5	MCERTS	< 5			
Toluene	µg/kg	< 5	MCERTS	< 5			
trans-1,3-Dichloropropene	µg/kg	< 5	MCERTS	< 5			
1,1,2-Trichloroethane	µg/kg	< 10	MCERTS	< 10			
1,3-Dichloropropane	µg/kg	< 5	MCERTS	< 5			
Tetrachloroethene	µg/kg	< 5	MCERTS	< 5			
Dibromochloromethane	µg/kg	< 5	MCERTS	< 5			
1,2-Dibromoethane	µg/kg	< 5	MCERTS	< 5			
Chlorobenzene	µg/kg	< 5	MCERTS	< 5			
1,1,1,2-Tetrachloroethane	µg/kg	< 5	MCERTS	< 5			
Ethyl Benzene	µg/kg	< 2	MCERTS	59			
m,p-Xylene	µg/kg	< 2	MCERTS	96			
o-Xylene	µg/kg	< 2	MCERTS	72			
Styrene	µg/kg	< 5	MCERTS	< 5			
Bromoform	µg/kg	< 10	MCERTS	< 10			
Isopropylbenzene	µg/kg	< 5	MCERTS	9			
1,1,2,2-Tetrachloroethane	µg/kg	< 5	MCERTS	< 5			
1,2,3-Trichloropropane	µg/kg	< 5	MCERTS	< 5			
n-Propylbenzene	µg/kg	< 5	MCERTS	16			
Bromobenzene	µg/kg	< 5	MCERTS	< 5			
2-Chlorotoluene	µg/kg	< 5	MCERTS	< 5			
1,3,5-Trimethylbenzene	µg/kg	< 5	MCERTS	167			
4-Chlorotoluene	µg/kg	< 5	MCERTS	< 5			
tert-Butylbenzene	µg/kg	< 5	MCERTS	< 5			
1,2,4-Trimethylbenzene	µg/kg	< 5	MCERTS	525			
sec-Butylbenzene	µg/kg	< 5	MCERTS	< 5			
p-Isopropyltoluene	µg/kg	< 5	MCERTS	78			
1,3-Dichlorobenzene	µg/kg	< 5	MCERTS	< 5			
1,4-Dichlorobenzene	µg/kg	< 5	MCERTS	< 5			
n-Butylbenzene	µg/kg	< 5	MCERTS	< 5			
1,2-Dichlorobenzene	µg/kg	< 5	MCERTS	< 5			
1,2-Dibromo-3-chloropropane	µg/kg	< 10	MCERTS	< 10			
Hexachlorobutadiene	µg/kg	< 5	MCERTS	< 5			

Soil Analysis Certificate - Sample Descriptions

DETS Report No: 25-02781	
Sevenoaks Environmental Consultancy Ltd	
~Site Reference: Hitchin	
~Project / Job Ref: 5551	
~Order No: 5551	
Reporting Date: 21/03/2025	

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
768377	SS01A	None Supplied	1.00	10.3	Brown sandy clay with chalk
768378	SS01B	None Supplied	0.30	9.3	Brown sandy clay with chalk
768379	SS01C	None Supplied	0.40	10.7	Brown clay with chalk
768380	SS01D	None Supplied	0.55	10.9	Brown sandy clay with stones and chalk

Moisture content is part of procedure E003 & is not an accredited test

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 25-02781
Sevenoaks Environmental Consultancy Ltd
~Site Reference: Hitchin
~Project / Job Ref: 5551
~Order No: 5551
Reporting Date: 21/03/2025

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

List of HWOL Acronyms and Operators	
DETS Report No: 25-02781	
Sevenoaks Environmental Consultancy Ltd	
~Site Reference: Hitchin	
~Project / Job Ref: 5551	
~Order No: 5551	
Reporting Date: 21/03/2025	

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by customer and can affect the validity of results

EPH Texas (C10 - C12) - EH_1D_Total
EPH Texas (C12 - C16) - EH_1D_Total
EPH Texas (C16 - C21) - EH_1D_Total
EPH Texas (C21 - C40) - EH_1D_Total
EPH Texas (C6 - C40) - HS_1D_MS+EH_1D_Total
EPH Texas (C6 - C8) - HS_1D_MS_Total
EPH Texas (C8 - C10) - EH_1D_Total

Certificate Key

<u>Symbol</u>	<u>Description</u>
F	Filtered sample
UF	Unfiltered sample
D	Dried sample
AR	As received sample
RL	Reporting limit
~	Sample details provided by customer and can affect the validity of results
M/S	Missing Sample
n	Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation
M	MCERTS accredited test
U	UKAS accredited test

Remedial Method Statement

At:

81/81a Whinbush Road,
Hitchin,
SG5 1PZ

For:

Viva Property Group Limited

Private and Confidential

Ref: 5551 24 01 15 Rpt 08 Rev A TI BB

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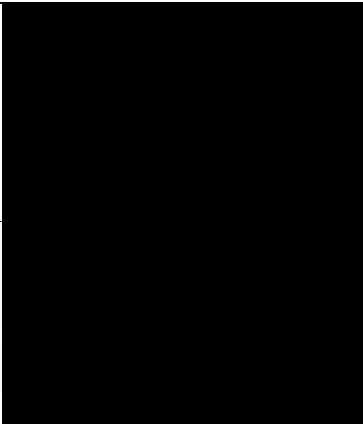


Sevenoaks
Environmental
Consultancy Ltd



Association of Geotechnical &
Geoenvironmental Specialists



This report has been produced in accordance with the Sevenoaks Environmental Consultancy Quality Assurance System			
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Introduction

1.1 REASON FOR THE REPORT

Sevenoaks Environmental Consultancy Ltd (SEC) was appointed by the Viva Property Group Ltd to prepare a Remediation Strategy in support of proposed re-development of the site known as 81/81A Whinbush Road, Hitchin, SG5 1PZ.

The site was previously developed with a residential property in the northwest corner and a disused former vehicle repair garage with a single-story office / reception building along the northern boundary, a forecourt / yard area to the centre of the site and other single story car repair garage and storage buildings along the southern boundary. It is proposed to clear the and it is proposed to redevelop the site with residential properties and an extension to the existing house (see Appendix A Figure 1 for Proposed Development Layout Plan).

Previous reports have been produced for the site including;

- Geo-Environmental Desk Study Report (ref; 4996 22 10 10 Rpt 01 Rev 01 AK DA) dated October 2022;
- Preliminary Geo-Environmental Site Investigation Report (ref; 5445 23 08 04 Rpt 01 Rev A BD BB) dated August 2023;
- Ground Gas and Groundwater Addendum Letter Report (ref 5551 24 01 05 Ltr Rpt 07 TI BB) dated January 2024;
- WM3 Waste Classification Assessment (ref: 5457 24 01 18 Ltr Rpt 01 Rev A TI WS) dated January 2024; and
- Supplementary Geo-Environmental Site Investigation Report (ref; 5551 24 01 05 Ltr Rpt 07 Rev A TI BB); dated January 2024

The findings from these previous assessment reports are summarised in more detail in Section 2.0 and this Remedial Method Statement should be considered with these previous reports.

The previous reports and this Remedial Method Statement have been produced in support of Planning Condition 11(c)(i) associated with the proposed development of the site under Planning Permission 22/02953/FP. Additionally, this Remedial Method Statement aims to inform the redevelopment Contractor of the remedial strategy / processes to be employed during the proposed development such that potential contaminated land risks to receptors are managed appropriately during the site's redevelopment and that any remedial work undertaken is adequately validated and documented to the satisfaction of the LPA.

1.2 SCOPE OF REPORT

In order to help discharge contaminated land planning conditions, this report references and discusses earlier contaminated land assessment reports, which have been written previously to help determine the ground contamination status of the site. This report provides details on the strategy for inspecting and remediating ground contamination identified at the site as well as other site-specific operational details required to help mitigate potential

risks to receptors associated with the proposed development including construction workers, future site users, neighbouring site's and controlled waters.

1.3 SITE DESCRIPTION

The site was located on the northern side of Whinbush Road, Hitchin. Approximately on Ordnance Survey (OS) national grid reference of 518849, 229651. The site boundary forms an approximately square shaped plot accessible from Whinbush Road to the west. At the time of writing, the site comprised an unoccupied residential property to the northwest corner and a disused former vehicle repair garage with a single-story office and reception building along the northern boundary, a forecourt in the centre of the site laid to asphalt hardstanding and the former vehicle repair garage and store along the southern boundary. A below ground fuel storage tank was also located beneath the yard area adjacent to the site entrance off Whinbush Road.

The ground level across the site and locally to the site was noted to be generally flat.

The site was primarily situated within a residential setting with adjacent residential buildings to the northeast and south and a church and car repair garage to the west.

2 Summary of Contamination Assessment

2.1 INTRODUCTION

Previous contaminated land assessment reports for the site have been carried out by SEC. Whilst the following provides a brief summary of the geo-environmental findings recorded by the previous reports reference should be made to the aforementioned documents for a more comprehensive view of the results and their implications.

2.2 REVIEW OF PREVIOUS REPORTS

Geo-Environmental Desk Study Report by Sevenoaks Environmental Consultancy Ltd (Report Ref: 4996 22 10 10 RPT 01 REV A AK DA) dated October 2022:

The following provides a brief review of the previous Desk Study Report that was produced for the site in October 2022.

The Desk Study was written based upon the same proposed residential development as this Remedial Method Statement and also in support of the same proposed development.

The Desk Study identified that the site was in active use as a vehicle repair garage with an adjoining residential property. A central MOT forecourt / yard was noted to be laid to asphalt hardstanding with an existing a residential property in the north-west corner, a single-storey office and reception building along the northern site boundary and a garage building immediately adjacent to the southern boundary was used for vehicle repairs and included 7no. repair bays. The floor of the Garage building was laid to concrete hardstanding. 5no. of the bays to the western side of the building appeared to be used for vehicle servicing / repairs and the remaining bays were in use for storage of parts, oils and tools. Vehicle ramps were used and as such no inspection pit(s) were noted. Some areas of staining were noted across the yard and a number of vehicles were parked within this area. The south-western corner of the site was used to store a number of 199L oil drums (Fully Synthetic Low SAPS Engine Oil) and 5L oil bottles (Fully Synthetic Gear Oil) and the hardstanding in this area of the site was heavily oil stained.

Historically the site was identified to have been undeveloped until 1898 when buildings were built in the northeast corner of the site. At this time a pump was also identified on site. By 1923 the previous buildings and pump were removed, and a new building was developed along the northern boundary of the site. In the 1960's a building was developed along the southern boundary of the site.

Offsite historical development included a garages ~7m south of the site, a nursery ~20m north/north-west of the site since 1881, a Gas Works ~80m north-west of the site since 1881, a Smithy ~70m north of the site since 1898, an Electrical Power Station ~220m south-west of the site since 1923, 2 No. Depots ~140m and ~160m north of the site since 1964, an Electrical Substation ~30m north of the site since 1976, a Works ~30m west of the site since 1992; and a discharge consent ~145m southwest associated with the release of a Sewage overflow into the River Hiz.

The British Geological Survey (England and Wales Sheet 288 Solid and Drift Edition) indicated that the site was

underlain by bedrock geology comprising West Melbury Marly Chalk Formation (Chalk) with overlying superficial deposits comprising Glaciofluvial Deposits, Mid Pleistocene (Sand and Gravel), Lowestoft Formation (Diamicton). Nearby BGS borehole records recorded conditions consistent with geology identified by the Geological Map and they recorded that the base of the superficial deposits was unproven at 10m bgl.

The geology underling the site was identified to consist of a Secondary Undifferentiated Aquifer associated with the superficial deposits and a Principal Aquifer associated with the bedrock formation. The site was not located within a Source Protection Zone. Additionally, no groundwater abstractions were identified locally to the site, for potable water supply purposes.

The closest surface water feature to the site was the river Hiz located ~54m to the west. The groundwater gradient regionally was inferred to be towards the south / south-west, however locally the groundwater gradient was noted to possibly be influenced by the river Hiz (Hitchin) and flow may be towards the north.

The Desk Study identified potential on-site sources of contamination including;

- Made Ground associated with the previous phases of development on site since 1898; and
- Previous site use as a Builders Yard, lock up garages, car servicing / repairs garage with potential contaminative features including storage of vehicles, parts, oils, and fuel with evidence of leaked / spilt hydrocarbons given oil staining to the hardstanding.

Potential off site sources of contamination identified included;

- A number of vehicle repair garages (the closest was ~7m south of the site);
- A Nursery ~20m north/north-west of the site since 1881;
- A Gas Works ~80m north-west of the site since 1881;
- A Smithy ~70m north of the site since 1898;
- An Electrical Power Station ~220m south-west of the site since 1923;
- Depots ~140m and ~160m north of the site since 1964;
- An Electrical Substation ~30m north of the site since 1976;
- A Works ~30m west of the site since 1992; and
- A discharge consent of sewage ~145m southwest of the site into the River Hiz.

Further to the risk assessment undertaken the Desk Study recommended the following;

- That in advance of any intrusive investigation that a CCTV drainage survey be completed to determine the current layout and condition of the existing drainage system;
- That further intrusive site investigation be conducted including a ground gas risk assessment in accordance with CIRIA C665 and chemical characterisation of the soil and groundwater (if encountered) beneath the site, to help clarify the potential risks associated with the site's previous uses including a Vehicle Servicing Garage, Made Ground relating to the previous phases of development and the potentially contaminative off-site sources identified. Testing of samples collected as part of the Site Investigation should include for the potential contaminants of concern associated with these sources, including asbestos, metals, speciated PAHs, VOCs and hydrocarbons;

- That a waste classification assessment (including WAC Analysis and a WM3 Assessment in accordance with EA WM3 guidance) be conducted to help inform future waste disposal requirements, associated costs and ensure regulatory compliance.

Geo-Environmental Site Investigation Report by Sevenoaks Environmental Consultancy Ltd (Report Ref: 5445 23 08 04 Rpt 01 Rev A BD BB) dated August 2023:

Further to the recommendations of the Desk Study SEC conducted a Geo-Environmental Site Investigation in August 2023 to support the planning application Ref: 22/02953/FP for the proposed redevelopment of the site and to help address planning condition 13.

The site location layout and condition at the site of the site investigation was the same as that identified by the Desk Study.

The site investigation comprised the conduct of 5 No. mini boreholes (WS01 – WS05) and 1 No. hand dug inspection pit (HP01) across the site in positions located to target point sources (such as the storage of oil drums in the south eastern corner of the site), building footprints and to provide general coverage.

Made Ground was encountered in all exploratory holes ranging in depth up to between 0.20m bgl (WS03) and 1.20m bgl (HP01). Typically, the Made Ground appeared to be limited to shallow depth except for HP01 in the southeast corner of the site where the base of the Made Ground was unproven at 1.2m bgl. Hardstanding across the site both concrete and tarmacadum surfacing. Where encountered the concrete hardstanding was 0.1m thick except for WS04 where concrete was identified beneath tarmacadum surfacing which was 0.15m thick. Tarmacadum where encountered was 0.05m thick. Underlying the hardstanding, Made Ground was identified to vary between gravelly Clay, sandy Gravel, and gravelly Sand, with brick, concrete, flint and clinker (HP01) fragments.

Underlying the Made Ground natural deposits were relatively homogeneous across the site and comprised gravelly Clay proven up to 4.0m bgl. Some variable natural material sandwiched between the Made Ground and natural gravelly Clay was identified within WS01 which comprised a horizon of gravelly Sand to 1.30m bgl over Sand to 2.0m bgl.

Groundwater was not encountered during drilling within 5 No. Windowless Sampler boreholes.

A below ground fuel storage tank was identified during the site investigation fieldwork. The tank was located adjacent to WS05 towards the western side of the site. Observations locally from WS05 appear to suggest that major impact may not have occurred associated with the tank.

Based upon the risk assessment undertaken as part of the previous Geo-Environmental Site Investigation, the following was recommended:

- That groundwater and ground gas monitoring be completed, and the findings be presented in an Addendum Report to supplement the findings of this assessment to date. Analysis of any groundwater encountered should include contaminants of concern including hydrocarbons, VOCs and BTEX. It is also therefore

recommended that the existing monitoring boreholes be retained and afforded protection until the LPA have approved the contaminated land assessment for the site;

- That further investigation be conducted in the front garden of the existing residential property in the northwestern corner of the site which could either be completed during the period of remaining environmental monitoring and reported within the Addendum Report or be conducted later as a separate phase of investigation. Additionally further validity investigation and analysis is recommended beneath the below ground fuel tank following its decommissioning and removal from site;
- That Petroleum Officer's Records be obtained to establish any further information that may be available for the below ground fuel storage tank that has been identified on site;
- That a Watching Brief be maintained by an Environmental Consultant during the removal of the existing hardstanding covering the site following demolition of the existing buildings to be removed and during the preparatory redevelopment groundwork. Confirmatory chemical laboratory analysis of representative samples should be undertaken for any suspect material identified for the contaminants of concern to help confirm an absence of potentially unidentified contamination;
- That the below ground fuel storage tank be appropriately decommissioned, a degassing certificate be obtained and the tank be removed from site by a tank decommissioning specialist under the supervision of an Environmental Consultant, in accordance with an LPA approved Remedial Method Statement. The tank and any contents e.g fuel, tank bottoms or foam should be appropriately disposed of to a suitably licensed waste management facility in accordance with current Environment Agency WM3 Guidance before the tank is removed / disturbed to help prevent unauthorised releases during removal / decommissioning;
- That areas of proposed soft landscaping / gardens be provided with a certified "clean" cover system, comprising a minimum thickness of 300mm imported topsoil laid over a hi-visibility marker layer (permeable geotextile or similar). The recommended cover system thickness should be re-evaluated in light of any further ground investigation data that becomes available. Subject to existing and proposed site levels existing Made Ground may require excavation and appropriate disposal from site to afford room for the provision of a cover system in garden / landscaped areas. Prior to the importation of topsoil, the supplier's chemical batch data should be provided to an Environmental Consultant for approval in relation to human health and following provision of imported topsoil on site the cover system should be certified including representative chemical analysis to corroborate the initial supplier batch data and that the minimum thickness has been provided over a hi-visibility marker layer. The "clean" cover system should provide in accordance with an LPA approved Remedial Method Statement and documented within a Verification Report for Regulatory approval;
- That a Discovery Strategy should be implemented on site during the redevelopment works which should include for the immediate reporting of any potential indicators of ground or water contamination (e.g. cement bonded asbestos sheeting fragments, ash/clinker or hydrocarbon odours) for additional separate assessment by an Environmental Consultant;

- That groundworkers should wear appropriate PPE and employing high standard of personal hygiene (i.e. washing hands, working in well-ventilated areas, avoid confined spaces, avoiding contact with the soil and not smoking) during all excavation work;
- That all waste material generated during the site's redevelopment should be disposed of from site to suitably licenced waste management facilities in accordance with current Environment Agency WM3 Guidance. Any waste arisings to be disposed of to landfill will also require chemical WAC testing to inform the correct classification for any receiving facility. The recommended Watching Brief by an Environmental Consultant during preparatory groundwork should help to ensure waste arisings are correctly segregated according to waste streams and waste disposal classification. All waste disposal tickets should be retained for duty of care auditing purposes. If waste arisings are to be considered for re-use on site then it should be noted that this would require implementation of the CL:AIRE CoP or an approved EA waste exemption permit;
- That the water supplier be contacted to determine their requirements with respect to the type of water supply pipe included within the design of the new properties. Subject to their requirements it may be necessary to install chemically resistant barrier water supply pipe. It is recommended therefore that correspondence be obtained from the water supplier which confirms standard water supply pipe is suitable or alternatively chemically resistant water supply pipe should be afforded to the new properties; and
- That prior to the commencement of any remedial work a Remedial Method Statement should be approved by the Local Planning Authority. In addition, any remedial work undertaken should be documented within a Validation Report

WM3 Waste Soil Disposal Assessment (5457 24 01 18 Ltr Rpt 01 Rev A TI WS) dated January 2024 by SEC

A WM3 Waste Soil Disposal Assessment was produced by SEC, to help inform appropriate Waste Classification for the disposal of arisings anticipated in relation to the redevelopment of the site.

The predominant material types that are likely to be generated for off site waste disposal were identified to include;

- 2 no. Stockpiles of Made Ground (consisting of MOT 1 and gravelly Clay arisings respectively).
- 3 Types of hardstanding (tarmac, concrete (both unimpacted by hydrocarbons and impacted by hydrocarbons)).
- 2 types of Made Ground (gravelly Clay and sandy Gravel).
- 2 type of Natural Strata (gravelly Sand and gravelly Clay).

The HazWasteTM Waste Classification Assessment classified the these material types with the following waste codes.

- 2 no. Stockpiles of Made Ground (consisting of MOT 1 and gravelly Clay arisings respectively) = both stockpiles as Non-Hazardous waste under code 17 05 04

- 3 Types of hardstanding (tarmac, concrete (both concrete hardstanding that is unimpacted by hydrocarbons and impacted by hydrocarbons) = tarmac 17 03 02 and concrete unimpacted by hydrocarbons under code 17 01 01 however the hydrocarbon impacted concrete was classified as Hazardous Waste under waste code 17 01 06*.
- 2 types of Made Ground (gravelly Clay and sandy Gravel) = Non-Hazardous waste under waste code 17 05 04 except for the Made Ground in the south western corner of the site locally to WS01 and HP103 where the Made Ground was classified as Hazardous waste under waste code 17 05 03 given elevated concentrations of zinc
- 2 type of Natural Strata (gravelly Sand and gravelly Clay) = Non-Hazardous waste under waste code 17 05 04 except for the natural material in the south western corner of the site locally to WS01 and HP103 where natural material was classified as Hazardous waste under waste code 17 05 03 given elevated concentrations of zinc (similarly to the overlying Made Ground).

WAC analysis was also undertaken for some of the waste types to help facilitate disposal to landfill. The Made Ground (gravelly Clay) was identified to require disposal to a landfill licensed to receive Non-Hazardous Waste whereas the WAC test for the other Made Ground type (sandy Gravel) indicated that it was suitable for disposal to an inert landfill. The WAC analysis on natural material indicated that the gravelly Clay required disposal to a landfill licensed to receive Non-Hazardous waste whereas the sandy Clay material was suitable for disposal to an inert landfill.

Given the different waste classifications waste arisings generated during remediation and redevelopment of the site it was recommended that arisings be segregated to facilitate appropriate off site disposal to suitably licensed waste disposal facilities in accordance with current WM3 guidance.

Ground Gas Risk Assessment Addendum Letter Report (Ref: 4551 22 07 11 Ltr Rpt 01 Rev A AS SP) dated December 2022 by SEC

A Ground Gas Risk Assessment Addendum Report was produced to provide comment on the environmental ground gas and groundwater monitoring results recorded for the site.

6 No. rounds of ground gas and groundwater monitoring were conducted including monitoring at periods of low / falling atmospheric pressure. Maximum concentrations of methane did not exceed 0%, carbon dioxide was recorded up to 0.65 and oxygen was recorded to be slightly depleted down to 12.1%. Typically VOCs were not recorded to be elevated more than 10ppm however during a single round of monitoring concentrations were recorded up to 288.8ppm within WS01. Flow rates were negligible and did not exceed 0l/hr.

Groundwater levels were recorded between 1.25m bgl and 3.95m bgl and analysis of the groundwater recorded slightly elevated concentrations of ammonia up to 942ug/l (WS02) and TPH up to 36ug/l (WS02).

It was subsequently recommended that whilst ground gas risks appeared to be low that residual risks associated with potential vapour ingress should be mitigated by the inclusion of a passively ventilated sub-floor void beneath suspended floor slabs in the design of the proposed development, to help ventilate any vapours that may accumulate. No further action was recommended in relation to the groundwater beneath the site given that the

potential sources of the ammonia (existing drainage system) and hydrocarbons (below ground fuel tank and former site use as a garage) on site would be removed by the redevelopment and that the slightly elevated concentrations of these contaminants would naturally attenuate.

Supplementary Geo-Environmental Site Investigation Report (Ref: 5551 24 01 05 Ltr Rpt 07 Rev A TI BM) dated January 2024 by SEC

Further to the findings of the Preliminary Geo-Environmental Site Investigation Report a supplementary investigation was conducted to help satisfy the LPA's requirements in order to facilitate some additional investigation of areas of the site within the footprint of proposed gardens, additional testing of the ground in areas of former above ground fuel storage for VOCs and hydrocarbons (eg southeast corner of the site where oil drums had been kept) and beneath existing building footprints. The scope of Supplementary Site Investigation was specified within a Proposed Geo-Environmental Site Investigation Scheme (ref: 5551 23 10 18 Ltr 01 Rev A TI BB) dated November 2023 which was approved by the LPA and essentially comprised a series of hand dug inspection pits. In addition the report included a search of the Petroleum Officer's records which confirmed that a 50 gallon petrol tank with a former fuel pump had been located to the southern side of the site. It is noted that the fuel pump had been removed but the tank remained beneath the site.

Analysis of soil samples recovered from the additional exploratory holes conducted identified further elevated concentrations of metals within HP103 which was located in the south western corner of the site close by to the previous WS01 position. Elevated metals within the Made Ground at HP103 included lead, mercury and zinc as well as elevated PAHs which exceeded generic human health guideline values (except zinc which was elevated with respect to plants rather than human health) based upon guidance values for the proposed residential end use with home grown produce.

The concrete ground slab across the footprint of the garage building located to the southern end of the site was identified to be impacted with elevated concentrations of hydrocarbons. Similarly the Made Ground beneath the hardstanding within HP101, HP102 and HP103 exhibited elevated concentrations of hydrocarbons which were considered to suggest that leaked / spilt fuels and oils used and stored in the southern area of the site had penetrated beneath the existing ground slab. However, analysis of the natural soils beneath the Made Ground did not identify elevated hydrocarbon concentrations and as such the impact does not appear to have migrated deeper than the near surface soils up to ~1.0m bgl.

Potential risks considered in relation to the near surface soils contamination identified were noted to primarily relate to groundworkers involved in the preparatory groundwork required to build the proposed development and in relation to future site occupants in the proposed garden / landscaped areas. Potential risks to site neighbours and controlled waters were considered to be low.

Previous recommendations made within the earlier site investigation report were indicated to be remain applicable in order to mitigate potential risks to the receptors associated with the proposed development. The recommendations from the first phase of site investigation were updated and included;

- That the below ground fuel storage tank be appropriately decommissioned, a degassing certificate be obtained and the tank be removed from site by a tank decommissioning specialist under the supervision of

an Environmental Consultant, in accordance with an LPA approved Remedial Method Statement. The tank and any contents e.g fuel, tank bottoms or foam should be appropriately disposed of to a suitably licensed waste management facility in accordance with current Environment Agency WM3 Guidance before the tank is removed / disturbed to help prevent unauthorised releases during removal / decommissioning. Additionally validation samples should be recovered from beneath the tank:

- That a Watching Brief be maintained by an Environmental Consultant during the removal of the existing hardstanding covering the site and during the preparatory redevelopment groundwork, to facilitate segregation of hydrocarbon contaminated concrete, tarmac and unimpacted concrete for appropriate off site disposal to a suitably licensed waste management facility. In addition near surface remedial excavation is required to remove Made Ground that is impacted with elevated concentrations of hydrocarbons, meals and PAHs from the southern end of the site in the vicinity of HP101, HP103 and WS01 up to 1.0m bgl (or natural material whichever is shallowest). Remedial excavations should be certified by basal soil validation sample analysis for the contaminants of concern and confirmatory chemical laboratory analysis of representative samples should be undertaken for any suspect material identified elsewhere across the site during the removal of hardstanding and preparatory groundwork, to help confirm an absence of impact;
- That areas of proposed soft landscaping / gardens be provided with a certified “clean” cover system, comprising a minimum thickness of 300mm imported topsoil laid over a hi-visibility marker layer (permeable geotextile or similar) although a thicker cover system should be provided to 600mm thickness in the gardens proposed within the south western corner of the site where deeper impacted soils were identified. Subject to existing and proposed site levels existing Made Ground may require excavation and appropriate disposal from site to afford room for the provision of a cover system in garden / landscaped areas. Prior to the importation of topsoil, the supplier’s chemical batch data should be provided to an Environmental Consultant for approval in relation to human health and following provision of imported topsoil on site the cover system should be certified including representative chemical analysis to corroborate the initial supplier batch data and that the minimum thickness has been provided over the a hi-visibility marker layer. The “clean” cover system should provide in accordance with an LPA approved Remedial Method Statement and documented within a Verification Report for Regulatory approval;
- That a Discovery Strategy should be incorporated into the site induction for all operatives during the redevelopment works and should include for the immediate reporting of any potential indicators of ground or water contamination (e.g. cement bonded asbestos sheeting fragments, ash/clinker or hydrocarbon odours) for additional separate assessment by an Environmental Consultant;
- That groundworkers should wear appropriate PPE and employing high standard of personal hygiene (i.e. washing hands, working in well-ventilated areas, avoid confined spaces, avoiding contact with the soil and not smoking) during all excavation work;
- That all waste material generated during the site’s redevelopment should be disposed of from site to suitably licenced waste management facilities in accordance with current Environment Agency WM3 Guidance. Any waste arisings to be disposed of to landfill will also require chemical WAC testing to inform the correct classification for any receiving facility. The recommended Watching Brief by an Environmental Consultant during preparatory groundwork should help to ensure waste arisings are correctly segregated according to waste streams and waste disposal classification. All waste disposal tickets should be retained

for duty of care auditing purposes. If waste arisings are to be considered for re-use on site then it should be noted that this would require implementation of the CL:AIRE CoP or an approved EA waste exemption permit;

- That chemically resistant water supply pipe (also known as barrier pipe) included within the design of the new properties to help mitigate potential residual risks associated with ground contamination impacted the new water supply pipework to be provided on site; and
- That a Remedial Method Statement be submitted for approval by the Local Planning Authority prior to for the conduct of the recommended remedial work. In addition any remedial work undertaken should be documented within a Validation Report.

3 Remedial Strategy

3.1.0 SPECIFIC REMEDIATION STRATEGY REQUIREMENTS

This section provides further details to specific issues or areas of the proposed development where the remediation strategy should be applied. It is designed to be used as an aid to understanding the remediation specifics for the proposed development and should not be considered in isolation.

3.1.1 SITE WORKS AND OPERATIONAL MATTERS

During the proposed remedial works the site will be well managed, kept secure from public access and the contractor should ensure as a minimum that all works are conducted in accordance with the following;

- Environmental Protection Act, 1990 Part 111 Sections 79-85;
- Environmental Permitting Regulations 2016
- Control of Substances Hazardous to Health Regulations 2002 (COSHH);
- Control of Pollution Act 1974;
- Waste Regulations and Controlled Waste Regulations (WM3 2021);
- Clean Air Act 1993;
- Health and Safety at Work Act 1974;
- The Control of Asbestos in the Air Regulations (SI 556) 1990;
- Control of Asbestos Regulations 2012;
- Construction Design Management Regulations 2015;

The contractor shall achieve compliance with the above by means of the following (which is not intended to be an exhaustive list but rather for indicative purposes):

- Regular damping down / dust suppression especially during warm and sunny weather;
- Deployment of dust screens adjacent to sensitive areas as necessary;
- Conduct of dust monitoring;
- Use of plant exhaust ventilation with filters;
- Employment of odour control measures as necessary;
- Limit vehicle speeds and employ road sweepers as necessary (no dry sweeping);
- Wheel washing prior to vehicles leaving site;
- Sheeting of vehicles carrying waste material away from site;

3.1.2 SITE CLEARANCE

Prior to the completion of demolition of existing structures on site all general waste should be removed and appropriately disposed of from site to suitably licensed waste management facilities. Any associated waste disposal tickets should be retained.

Although current ground gas monitoring and the ground gas risk assessment has been concluded, all existing borehole monitoring installations should be afforded careful protection until the Remedial Strategy is approved. Lost

or damaged monitoring installations will need to be replaced.

3.1.3 DISCOVERY STRATEGY

In order to provide a protocol to follow in the event that previously unidentified contamination is encountered on site during the proposed remedial work and preparatory groundwork ahead of construction, a Discovery Strategy should be implemented throughout the work, such as that provided in Appendix B. This should include for the immediate reporting of any suspected contaminated material based on visual and olfactory observations, to an Environmental Consultant for additional separate assessment. Additionally, the Regulators should be informed of any such discoveries as works progress.

3.1.4 DECOMMISSION & REMOVAL OF THE BELOW GROUND FUEL STORAGE TANK

The Petroleum Officer Records confirmed the presence of a 500 gallon petrol storage tank located beneath the western side of the site adjacent to the site entrance. Prior to the conduct of general preparatory groundwork on site the tank should be decommissioned and removed. A specialist contractor should be engaged to undertake this work which should include an inspection of the tank before it is disturbed to establish if it contains any residual fuel and in order to degass the tank. A degassing certificate should be obtained and any residual fuel should be removed and disposed of to a suitably licensed waste management facility.

The tank should then be broken out and removed from site under the supervision of an Environmental Consultant. The ground that will become exposed around the tank should be inspected and soil validation samples should be collected from beneath the tank (and of any material suspected of being impacted by hydrocarbons). A PID should be used during the inspection of the ground surrounding the tank to help identify soils potentially impacted by hydrocarbons. Records in the form of a notes, diagrams and photos should also be recorded by the Supervising Environmental Consultant, which should be retained for presentation in the future Verification Report for the site.

The tank should be disposed of from site to a suitably licensed waste management facility and the waste disposal ticket for the tank should be retained.

Soil validation samples recovered from the ground beneath the tank should be analysed for hydrocarbons and the results should be compliant with the guidance values based upon a residential end use with homegrown produce, adopted from the LQM/CIEH (Land Quality Management / Chartered Institution of Environmental Health) Suitable Use Levels (S4ULs) for Human Health Risk Assessment 2015 (see Appendix C For Validation Sample Chemical Criteria). Any sample results that identify concentrations of hydrocarbons in excess of the guidance values will require further remedial excavation to remove the impacted material from site and additional validation sample analysis.

All waste disposal should be to suitably licensed waste management facilities and all duty of care documentation should be retained for presentation within a future Verification Report.

The resulting void following the removal of the tank should be reinstated with imported certified "clean" engineered fill which is compacted in layers, to the Structural Engineer's requirements. Chemical validation samples of the imported backfill material should be analysed for a general range of common contaminants including asbestos, metals, hydrocarbons, speciated PAHs and phenols to certify it's chemical suitability for use on site. The Validation

sample results should be compliant with the human health guidance values referenced above based on the proposed end use comprising residential with homegrown produce.

3.1.5 WATCHING BRIEF DURING PREPARATORY GROUNDWORK & REMEDIAL EXCAVATION

A Watching Brief is to be maintained by an Environmental Consultant during the removal of the existing hardstanding from across the site and during preparatory groundworks (eg reduction of site levels or foundation trenches). The purpose of the Watching Brief is to facilitate the following;

- 1) Segregation of tarmac, hydrocarbon impacted concrete and unimpacted concrete to support appropriate off site disposal given the varying waste classification codes for the existing hardstanding materials across the site;
- 2) To oversee the remedial excavation of the contaminated Made Ground identified in the south western corner of the site within the vicinity of HP103 and WS01;
- 3) To inspect and sample for laboratory analysis soils exposed during preparation of the site for construction, in order to confirm an absence of previously unidentified contamination; and
- 4) To support the segregation of waste material arisings in order to facilitate appropriate disposal of the various waste streams from site.

The Environmental Consultant maintaining the watching brief should keep records of the work observed including Daily Record Sheets, diagrams / sketches, photos, PID test records and sample location plan details. This information will need to be included within the final Verification Report to certify the work undertaken on site.

Waste material arisings should be segregated based upon the various waste streams identified by the WM3 Waste Classification Assessment. Each waste stream should be disposed of separately to appropriately licensed waste disposal facilities. Specific waste disposal details are provided below.

The area of contaminated ground in the south western corner of the site should be delineated by the Environmental Consultant and remedial excavation should be conducted down to 0.6m below the existing ground level. This should remove all of the impacted Made Ground and some of the underlying natural material (which contains elevated zinc concentrations). Remedial excavation to this depth should result in the removal of the near surface metals, TPH and PAH impacted Made Ground and provide room to import the certified "clean" cover system where the proposed garden areas intercept this area of the site. Subject to the position of the proposed buildings, if the remedial excavation to remove the impacted material extends beneath the proposed building footprint, then the remedial excavation could be shallower to 0.3m bgl (subject to the depth of the Made Ground) given that the natural material containing elevated zinc concentrations would be suitable to remain beneath the building.

Representative soil validation samples should be recovered from the sides and base of the remedial excavation for laboratory analysis for the contaminants of concern including lead, zinc, TPH and speciated PAHs. Subject to the size of the remedial excavation at least 5 validation samples will be required including the sides of the excavation and the base. Validation sample results should be compliant with the Validation Sample Criteria previously referenced and provided in Appendix C

Any imported material to backfill the remedial excavation (eg Engineered fill beneath hardstanding or topsoil in garden areas) should be certified “clean” and suitable for use. The supplier’s chemical batch data should be provided to the Environmental Consultant prior to import of material to site for approval and then following provision to site the imported materials should be subject to representative soil validation sample analysis, to corroborate the supplier’s batch data and confirm chemical suitability in relation to human health. More specific details are provided below in Section 3.1.6 in relation to the validation of imported materials and garden areas.

The watching brief during the preparatory groundworks including excavation of foundations or reducing ground levels should include inspection of exposed soils to identify any potentially contaminated material that has not previously been identified. Suspect material should be sampled for laboratory analysis and care should be taken not to cross contaminated suspect materials with “clean” soils.

3.1.6 AREAS OF PROPOSED GARDENS AND IMPORTED MATERIAL REQUIREMENTS

Areas of proposed gardens are to be provided with a “clean” cover system comprising the provision of a minimum thickness of 300mm imported topsoil laid over a high visibility geotextile marker layer. It is noted however that the gardens in the south western corner of the site should be provided with a thicker cover system consisting of 600mm imported “clean” material laid over a high visibility marker layer. In these garden areas the cover system could comprise 300mm of imported “clean” subsoil and 300mm imported “clean” topsoil to provide the 600mm thickness, alternatively the 600mm could be topsoil.

Imported topsoil and subsoil that is provided to site should be certified chemically “clean”. As such the supplier’s chemical batch data should be provided to an Environmental Consultant for approval prior to delivery of material to site and the cover system should be validated by an Environmental Consultant by means of trial pits to confirm the thickness of imported topsoil and subsoil provided is to the required minimum thicknesses, that a hi-visibility marker layer has been provided and that laboratory analysis of representative validation samples is undertaken to corroborate the initial batch supplier data. Soil validation samples should be analysed at a frequency of at least 1 sample per material type per source per landscaped / garden area as a minimum. Validation samples should be recovered for laboratory analysis for a suite of determinands including asbestos, metals, speciated PAHs, organic matter, TPH, phenols and pH. The validation sample results should be compared to the LQM/CIEH Suitable 4 Use Levels (S4ULs) 2015 based upon a residential end use with homegrown produce (see Appendix C Validation Sample Chemical Criteria). All imported material delivery tickets should be retained.

SEC is unaware of general material import requirements for the purposes for the redevelopment however any imported material should be chemically certified as suitable for use on site in the same way as imported topsoil / subsoil.

3.1.7 APPROPRIATE DISPOSAL OF WASTE ARISING

It is not proposed to re-use any arisings on site and as such no work has been conducted to facilitate re-use of waste arisings on site. All arisings generated during remedial work and to facilitate the proposed development are to be disposed of from site to suitably licensed waste disposal facilities.

All waste arisings generated during the construction of the proposed development are to be disposed of from site in compliance with the Environment Agency's Technical Guidance WM3 Version 1.1 dated 2018 titled 'Guidance on the classification and assessment of waste' describes wastes in the List of Wastes Directive (LoWD 2014/955/EU).

Specialist waste classification software (HazWasteTM) has been used to help determine waste classification codes for the materials encountered on site. Details of the waste classification for the Made Ground and Natural material encountered on site are provided in the Waste Classification Report (Ref: 4551 24 01 22 Rpt 04 Rev A TI BB). However, a brief summary of the assessment has been provided below:

- 2 no. Stockpiles of Made Ground (MOT 1 and gravelly Clay arisings).
- 3 Types of hardstanding (tarmac, unimpacted concrete and hydrocarbon impacted concrete).
- 3 Types of Made Ground (gravelly Clay both impacted with contaminants and unimpacted and sandy Gravel).
- 2 Type of Natural Strata (gravelly Sand and gravelly Clay).

Hardstanding has been classified as tarmac 17 03 02 and concrete unimpacted by hydrocarbons under code 17 01 01 however the hydrocarbon impacted concrete was classified as Hazardous Waste under waste code 17 01 06*. Made Ground on site has been classified under two separate waste codes 17 05 04 (Non-Hazardous) and 17 03 01* (Hazardous) subject to the concentrations of contaminants within the Made Ground. Similarly natural material was also classified as both Non-Hazardous waste under code 17 05 04 and Hazardous was under code 17 03 01*.

Waste arisings should be segregated and disposed of in accordance with the waste classification table provided below. The Watching Brief by an Environmental Consultant during remedial and preparatory groundwork should help support the appropriate segregation and disposal of impacted waste arisings correctly. Should previously unidentified waste types be encountered then chemical characterisation (including WAC testing) should be carried out prior to disposal to ensure that materials are correctly classified and disposed of appropriately.

Material Type for Reference	Depth Range (bgl)	Landfill Acceptance (WAC Classification)	Waste Classification	Waste Code
Stockpile of MOT Type 1 gravel	-	-TBC	Non-Hazardous	17 05 04
Stockpile of Made Ground (gravelly Clay)	-	TBC	Non-Hazardous	17 05 04
Bituminous (tarmac) Surfacing	GL – 0.20	-	Hazardous	17 03 02
Concrete Hardstanding impacted by hydrocarbons	GL – 0.25	-	Hazardous	17 01 06*
Concrete Hardstanding unimpacted by hydrocarbons	GL - 0.25	-	Non-Hazardous	17 01 01

Made Ground (gravelly Clay impacted with metals and hydrocarbons WS01 and HP103)	0.00--0.30m	Non-Hazardous	Hazardous	17 05 03*
Made Ground (gravelly Clay unimpacted by contaminants)	0.00 - ~1.20m	TBC	Non-Hazardous	17 05 04
Made Ground (sandy Gravel)	0 – 1.20m bgl	Inert	Non-Hazardous	17 05 04
Natural Material (gravelly Sand impacted with elevated concentrations of zinc WS01)	0.2 - 1.20m bgl	TBC	Hazardous	17 05 03*
Natural Material (gravelly Sand unimpacted by zinc)	0.15 - 2.0m bgl	TBC	Non-Hazardous	17 05 04
Natural Material (gravelly Clay)	1.00 - 4.45m bgl	Non-Hazardous	Non-Hazardous	17 05 04

All waste disposal documentation should be retained for inclusion within a future Verification Report to help demonstrate compliance with waste management requirements and duty of care.

3.1.8 GROUNDWATER AND THE CONTROL OF SURFACE WATER RUN OFF

Based on the available data the groundwater beneath the site has been identified to vary in depth between 1.16m bgl and 3.85m bgl. Given that the groundwater may be encountered at shallow depth consideration of dewatering may be necessary subject to the depth of foundation excavations. No groundwater remediation was considered necessary however.

Any dewatering (including surface water management) required should either be discharged to foul sewer under an approved Discharge Consent or to a suitably licensed disposal facility by lorry tanker (disposal documentation to be retained). Chemical testing of water to be removed from site will be required to facilitate a permitted discharge consent or off site disposal. If it is proposed to recirculate the groundwater back into the ground consideration of Environment Agency requirements will be necessary.

During the proposed development no unauthorised releases from site are to occur. Therefore effective surface water management should be maintained especially during any heavy rainfall events. To help prevent unauthorised releases from site, surface water runoff management considerations should include;

- Provision of temporary bunds as may be necessary to help prevent runoff from site;
- Use of drip trays / spill kits associated with plant to prevent contamination of surface water;
- Sheeting over and under stockpiles of any impacted material; and
- Appropriate off site disposal of any ponded surface water via either foul sewer under an approved discharge consent or by lorry tanker to suitably licensed waste management facilities.

Should soakaways be proposed as part of the drainage solution for the proposed development then they should be appropriately consented by the Environment Agency.

3.1.9 GROUND GAS RISK MITIGATION

Whilst the ground gas screening value calculated using the results of the available ground gas monitoring data indicated a low potential risk associated with ground gases, elevated concentrations of VOCs were recorded. Therefore given consideration of the former site use and the potential for organic contamination to be degrading within the ground beneath the site associated with this use and given the VOCs recorded, the design of the proposed development should include passively ventilated sub-floor voids beneath suspended floor slabs. The design of the floor slab construction should therefore be provided to an Environmental Consultant for approval and inclusion within the Verification Report for the site.

3.1.10 SITE TRAFFIC

Consideration of wheel cleaning facilities should be given throughout the duration of the redevelopment work to prevent debris / mud being tracked off site onto local roads. It may also be necessary to dampen down site soils to prevent dust generation by vehicles accessing the site subject to weather conditions. All wheelwash runoff should be appropriately managed such that unauthorised releases do not occur. Should conditions necessitate, a road sweeper will be employed to supplement the jet washing of vehicles wheels in order to keep the local roads free from mud debris. No dry sweeping is permitted.

Any contaminated water produced as a consequence of these operations will be disposed of in accordance with current best practice and statutory guidance either to foul sewer under a discharge consent and following pre-treatment via a silt buster or via a licensed suction tanker to an approved disposal facility (any waste water disposal tickets should be retained for inclusion within the Validation Report).

3.1.11 WATER SUPPLY PIPE

Potential risks to the potable water supply provided to the new development should be mitigated by the provision of chemically resistant water supply pipe (also known as barrier pipe) within the design of the proposed development. Prior to the installation of chemically resistant water supply pipe on site, the specification for the proposed pipework should be provided to an Environmental Consultant for approval. The installation of the chemically resistant water supply pipework should be documented by an Environmental Consultant and detailed within the future Verification Report.

3.1.12 HEALTH AND SAFETY FOR SITE OPERATIVES

The groundworks contractor will prepare site specific risk assessment and method statements (RAMS) for approval prior to the commencement of earth works. All site operatives are to be briefed as to the details of the Discovery Strategy as part of their site induction.

All site operatives will be required to wear appropriate PPE including a hard hat, reflective vests, gloves and hard toe footwear as a minimum. Additionally, workers should employ high standards of personal hygiene (including washing hands before eating) and avoid direct contact with soils (and waters if encountered). Workers should work in well ventilated areas and avoid confined spaces.

Suitable welfare facilities should be provided on site for the duration of the redevelopment work.

3.1.13 VARIATIONS

As work progresses on site, subject to findings or conditions the remedial strategy may have to adapt to manage unforeseen issues (e.g. in the event that buried infrastructure is encountered which may give rise to previously unidentified contamination and /or previously unidentified contamination is identified). Any such findings should be assessed in accordance with the Discovery Strategy and any subsequent variations to the remedial strategy should be documented within a Technical Addendum produced by an Environmental Consultant for Regulatory approval.

3.1.14 VERIFICATION REPORT

All remedial measures and remedial work implemented on site during the site's redevelopment should be adequately documented within a Verification Report for the site written by an Environmental Consultant, to demonstrate compliance with the remedial strategy for Regulatory approval.

The Validation Report should include information such as a commentary of the works conducted, photographic record of work undertaken, validation sample analysis data, details of materials imported to and disposed of from site, and plans indicating remedial work undertaken. Following completion, the Verification Report should be submitted to the Local Authority for approval and discharge of contaminated land conditions.

4.0 General Limitations and Exceptions

1. The advice given in this report with respect to contaminated land / pollution is based on the guidelines available at the time of writing.
2. The Client is advised that the conditions observed on site by SEC at the time of the investigation or assessment are subject to change. Certain indicators of the presence of hazardous substances may have been latent at the time of the most recent site reconnaissance or investigation and they may subsequently have become observable.
3. Comments made relating to land gas or groundwater conditions are based on observations made at the time of the investigation unless otherwise stated. The normal rate of conduct of an exploratory hole does not usually permit the recording of an equilibrium groundwater level for any one strike. Land gas and / or groundwater conditions may vary as a result of seasonal or other effects.
4. Ground contamination often exists as small discrete areas of contamination and there can be no certainty that any or all such areas have been located, sampled and / or identified.
5. The opinions expressed in this report are based on the ground conditions revealed by the site works, together with an assessment of the site and of laboratory test results. Whilst opinions may be expressed relating to sub-soil conditions in parts of the site not investigated, for example between or beyond borehole positions, these are only for guidance only and no liability can be accepted for their accuracy.
6. Whilst commonly regarded as one of the most reliable drilling techniques, cable percussive drilling may result in a certain amount of soil mixing.
7. This assessment may be subject to amendment in light of additional information becoming available.
8. The findings and opinions conveyed in this report are based on information obtained from a variety of sources, including that from 1) previous site investigations and 2) chemical testing laboratories, and which SEC has assumed are correct. Nevertheless, SEC cannot and does not guarantee the authenticity or reliability of the information it has relied upon. SEC can accept no responsibility for inaccuracies within the data supplied by other parties.
9. This report is written in the context of an agreed scope of work between SEC and the Client and should not be used in a different context. In light of additional information becoming available, improved practices and changes in legislation amendment or re-interpretation of the assessment or report in whole or part may be necessary after its original submission.
10. This report is provided for sole use by the Client and is confidential to them. No responsibility whatsoever for the contents of the report will be accepted to anyone other than the Client.
11. SEC believes that providing information about limitations is essential to help the Client identify and thereby manage risks.
12. The copyright of written materials supplied shall remain the property of SEC but with a royalty free perpetual licence, granted to the Client on payment in full of any outstanding monies.
13. SEC does not provide legal advice and the advice of the Clients legal advisors may also be required.
14. SEC notes that this assessment is subject to regulatory review and approval.

15. This report represents a stage in an iterative process of investigation and assessment and as such it is possible that further work may be recommended.
16. The use of data generated by this site investigation for the design of foundations or geo-technical assessment was outside the scope of this report.
17. An arboricultural survey, an ecological survey, an asbestos survey, a geotechnical assessment, a topographical survey, and a flood risk assessment for the site were beyond the scope of this report.
18. This report is subject to the limitations of the original investigations, as reported in the references above.



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This map is not to be relied upon for accuracy and is for identification purposes only

SITE: 81/81A Whinbush Road, Hitchin, SG5 1PZ

SCALE: NTS

JOB NO: 5551

FIGURE TITLE: Proposed Exploratory Hole Layout Plan

REV: 01

FIGURE NO: 1



DISCOVERY STRATEGY CONTAMINATED MATERIALS

SITE: 81/81A Whinbush Road, Hitchen, SG5 1PZ

INTRODUCTION

It is proposed to re-development the site with new residential properties at 81/81A Whinbush Road. The site will be undergoing ground contamination remedial work associated with Made Ground containing elevated concentrations of hydrocarbons and metals as discussed within the Remediation Method Statement. A Discovery Strategy is to be implemented on site to provide a protocol to follow in the event that previously unidentified potential ground contamination is encountered during redevelopment of the site.

Its purpose is to define the process to be undertaken on site in the event that previously unidentified ground or water contamination or suspicious objects (e.g. cement bonded asbestos sheeting fragments) are discovered during the redevelopment of the site. Should suspected evidence of contamination be identified then work should cease until additional separate assessment has been conducted by an Environmental Consultant. It is intended to be understood and followed by all on-site workers and for all new site workers to be made aware of the procedure.

HOW TO IDENTIFY POTENTIALLY CONTAMINATED MATERIAL

- Looks / colours – e.g black, purple, pink, grey oily or has an iridescent sheen
- Odours / smells – e.g. has an oil, fuel or solvent type of odour
- Man made fragments – e.g. paint or oil tins, cans or drums, car parts, bottles, glass, metal, rubber or rubbish fragments
- Ground contains foreign fragments of cement bonded (potential asbestos) sheeting, coal/coke, clinker, ash
- Subsurface structures / vessels, concrete or metal e.g. oil or asbestos filled pits or tanks, walls, metal pipes and sandbags

(N.B. These are examples only – This list is not exhaustive. If in any doubt then ask)

PROCEDURE

If during the redevelopment work, any visibly contaminated or odourous material is found to be present at the site, it must be investigated further, the Local Planning Authority must be informed of the nature and degree of contamination present and a method statement detailing how the unsuspected contamination shall be dealt with must be prepared and submitted to the Local Planning Authority for approval in writing before being implemented.

On the discovery of any suspicious material or buried structures during the redevelopment of the site, the following procedure should be followed:

- Site Personnel to immediately inform Client / Site Manager. Do not investigate it yourself.

- Client / Site Manager to inspect and confirm the observations of potentially contaminated material and inform Sevenoaks Environmental Consultancy Ltd. The area will be cordoned off and work will cease in the vicinity.
- Sevenoaks Environmental Consultancy Limited will attend site to inspect and sample the material in question for laboratory testing to evaluate if the material in question has been reported on previously and will attempt to quantify the extent and volume of any potential contamination if not.
- The Environmental Health Officer at the Council will then be notified if the material has not been reported on previously that potentially contaminated material has been discovered and will be forwarded the relevant laboratory data and a remedial strategy for their approval in the event that the material is to be classified as contaminated.

CONTACT DETAILS

Environmental Consultant:

Sevenoaks Environmental Consultancy Ltd.
145a Hastings Road
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Tunbridge Wells
Kent
TN2 4JU

Contact: Brendan Davis

Tel: 01892 822 999

Email: b.davis@sevenoaksenvironmental.com

Regulator:

North Herts Council
Gernon Road
Letchworth Garden City
SG6 3JF

Tel: 01462 474000

Client

Viva Property Group Ltd
19 York Rd
Northampton
NN1 5QC

Contact: Bimal Barchha

Tel: 01604 600 602

Email: bimal@thesmartmove.co.uk

DECLARATION

[illegible]

Remedial Target Values for Remedial Excavation Validation & Imported Materials based upon a Residential End Use with Home Grown Produce (including consideration of phytotoxic contaminants in areas of proposed planting in addition to Human Health)

Chemical	Guidance Value in mg/kg	Guidance Criteria
Metals		
Arsenic	37	LQM / CIEH S4UL
Barium	-	-
W/S Boron	-	-
Boron	290	LQM / CIEH S4UL
Cadmium	11	LQM / CIEH S4UL
Chromium	910	LQM / CIEH S4UL
Chromium VI	6	LQM / CIEH S4UL
Copper (Human Health)	2400	LQM / CIEH S4UL
Copper (Phytotoxic - to be considered in areas of planting as well as Human Health Threshold)	130	Inhouse
Mercury	1.2	LQM / CIEH S4UL - Trigger for consideration of further elemental / inorganic / methylmercury analysis
Nickel (Human Health)	180	LQM / CIEH S4UL
Nickel (Phytotoxic - to be considered in areas of planting as well as Human Health Threshold)	70	Inhouse
Selenium	250	LQM / CIEH S4UL
Lead	190	C4SL
Zinc (Human Health)	3700	LQM / CIEH S4UL
Zinc (Phytotoxic - to be considered in areas of planting as well as Human Health Threshold)	300	Inhouse
Poly Aromatic Hydrocarbons (PAHs) (based on 1% SOM)		
Naphthalene	2.3	LQM / CIEH S4UL
Acenaphthylene	170	LQM / CIEH S4UL
Acenaphthene	210	LQM / CIEH S4UL
Fluorene	170	LQM / CIEH S4UL
Phenanthrene	95	LQM / CIEH S4UL
Anthracene	2400	LQM / CIEH S4UL
Fluoranthene	280	LQM / CIEH S4UL
Pyrene	620	LQM / CIEH S4UL
Benzo(a)anthracene	7.2	LQM / CIEH S4UL
Chrysene	15	LQM / CIEH S4UL
Benzo(b)fluoranthene	2.6	LQM / CIEH S4UL
Benzo(k)fluoranthene	77	LQM / CIEH S4UL
Benzo(a)pyrene	2.2	LQM / CIEH S4UL
Indeno(1,2,3-cd)pyrene	27	LQM / CIEH S4UL
Dibenz(a,h)anthracene	0.24	LQM / CIEH S4UL
Benzo(ghi)perylene	320	LQM / CIEH S4UL
Aromatic Hydrocarbons (based on 1% SOM)		
EC5-7	70	LQM / CIEH S4UL
EC>7-8	130	LQM / CIEH S4UL
EC>8-10	34	LQM / CIEH S4UL
EC>10-12	74	LQM / CIEH S4UL
EC>12-16	140	LQM / CIEH S4UL
EC>16-21	260	LQM / CIEH S4UL
EC>21-35	1100	LQM / CIEH S4UL
EC>35-44	1100	LQM / CIEH S4UL
Aliphatic Hydrocarbons (based on 1% SOM)		
EC5-6	42	LQM / CIEH S4UL
EC>6-8	100	LQM / CIEH S4UL
EC>8-10	27	LQM / CIEH S4UL
EC>10-12	130	LQM / CIEH S4UL
EC>12-16	1100	LQM / CIEH S4UL
EC>21-35	65000	LQM / CIEH S4UL
EC>35-44	65000	LQM / CIEH S4UL
Phenol (based on 1% SOM)		
Phenol	280	LQM / CIEH S4UL
Asbestos		
Asbestos Presence / Absence	Absence	-

Appendix C Pre-delivery Topsoil Testing



Final Report

Report No.: 26-04935-1

Initial Date of Issue: 14-Mar-2026

Re-Issue Details:

Client AA Environmental Ltd

Client Address: Units 4 to 8
Cholswell Court
Shippon
Abingdon
Oxfordshire
OX136HX

Contact(s): Reporting

Project 223393 Cainhoe Quarry

Quotation No.: **Date Received:** 14-Mar-2026

Order No.: **Date Instructed:** 14-Mar-2026

No. of Samples: 1

Turnaround (Wkdays): 7 **Results Due:** 28-Mar-2026

Date Approved: 10-Apr-2026 **Subcon Results Due:** 10-Apr-2026

Approved By:



Details: Stuart Henderson, Technical
Manager

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

Results - Soil

Project: 223393 Cainhoe Quarry

Client: AA Environmental Ltd		Chemtest Job No.:		25-04935		
Quotation No.:		Chemtest Sample ID.:		1768386		
		Client Sample ID.:		Top Soil		
		Sample Type:		SOIL		
		Date Sampled:		19-Mar-2025		
		Asbestos Lab:		NEW-ASB		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
ACM Type		U	2192		N/A	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected
Moisture		N	2030	%	0.020	14
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones and Roots
Soil Texture		N	2040		N/A	Clay
pH at 20C		M	2010		4.0	8.2
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.94
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	0.25
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	4.1
Arsenic		M	2455	mg/kg	0.5	25
Cadmium		M	2455	mg/kg	0.10	0.33
Chromium		M	2455	mg/kg	0.5	37
Copper		M	2455	mg/kg	0.50	30
Mercury		M	2455	mg/kg	0.05	0.17
Nickel		M	2455	mg/kg	0.50	27
Lead		M	2455	mg/kg	0.50	68
Selenium		M	2455	mg/kg	0.25	0.82
Vanadium		U	2455	mg/kg	0.5	59
Zinc		M	2455	mg/kg	0.50	110
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	4.3
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	1.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	5.6
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	11
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	11
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25

Results - Soil

Project: 223393 Cainhoe Quarry

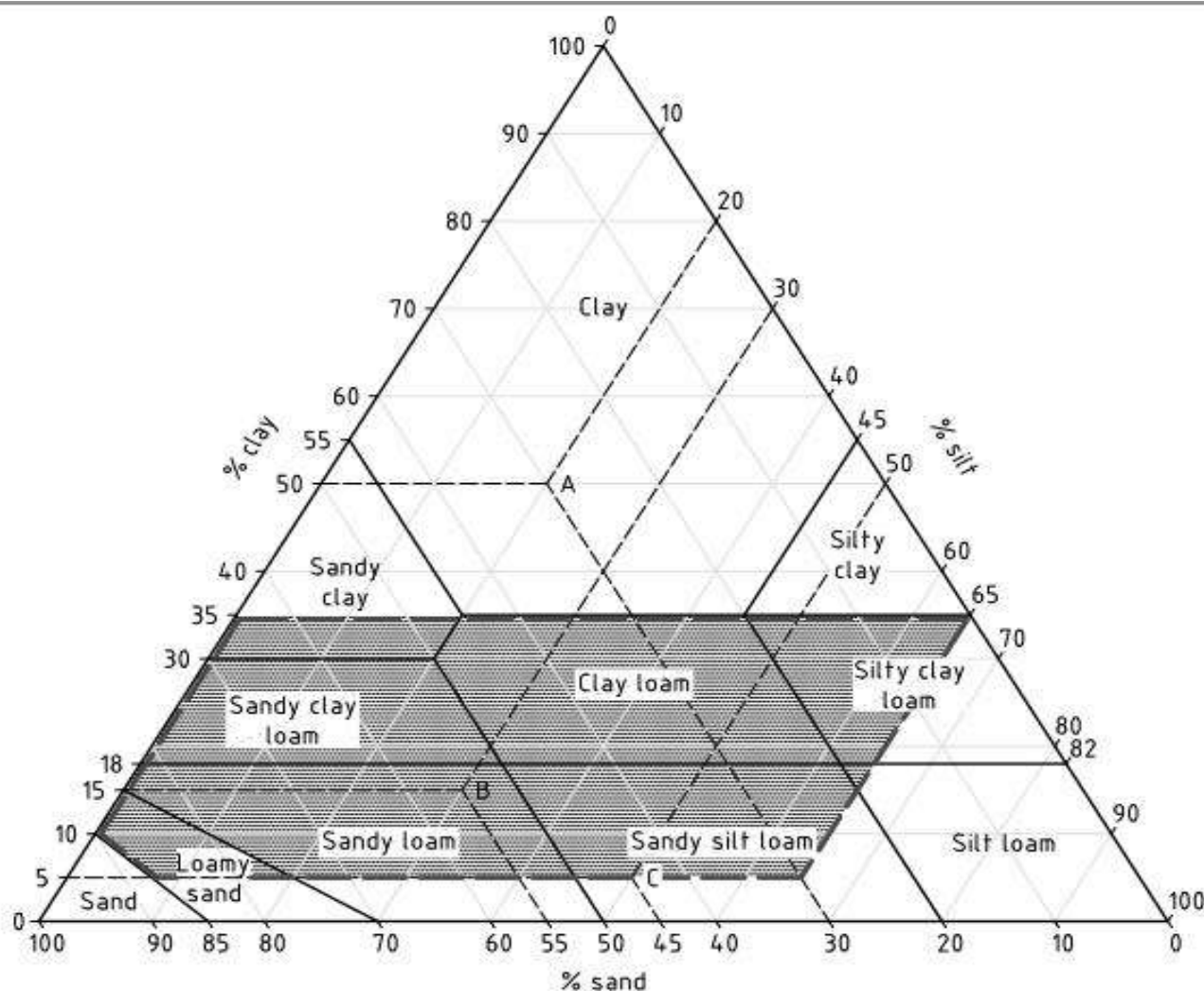
Client: AA Environmental Ltd				Chemtest Job No.:		25-04935
Quotation No.:				Chemtest Sample ID.:		1768386
				Client Sample ID.:		Top Soil
				Sample Type:		SOIL
				Date Sampled:		19-Mar-2025
				Asbestos Lab:		NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	6.5
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	11
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	19
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	19
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	30
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	30
Total Organic Carbon		M	2625	%	0.20	1.1
Naphthalene		M	2700	mg/kg	0.10	< 0.10
Acenaphthylene		M	2700	mg/kg	0.10	< 0.10
Acenaphthene		M	2700	mg/kg	0.10	< 0.10
Fluorene		M	2700	mg/kg	0.10	< 0.10
Phenanthrene		M	2700	mg/kg	0.10	0.61
Anthracene		M	2700	mg/kg	0.10	0.17
Fluoranthene		M	2700	mg/kg	0.10	1.1
Pyrene		M	2700	mg/kg	0.10	1.1
Benzo[a]anthracene		M	2700	mg/kg	0.10	0.78
Chrysene		M	2700	mg/kg	0.10	0.90
Benzo[b]fluoranthene		M	2700	mg/kg	0.10	1.6
Benzo[k]fluoranthene		M	2700	mg/kg	0.10	0.69
Benzo[a]pyrene		M	2700	mg/kg	0.10	0.72
Indeno(1,2,3-c,d)Pyrene		M	2700	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		M	2700	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2700	mg/kg	0.10	< 0.10
Total Of 16 PAH's		M	2700	mg/kg	2.0	7.7
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Results - Topsoil Report

BS3882:2015

Chemtest Job No.: 26-04935
 Chemtest Sample ID.: 1768386
 Client Sample Ref.:
 Sample Location:
Client Sample ID.: Top Soil
 Top Depth (m):
 Bottom Depth (m):
 Date Sampled: 19-Mar-2026
 Time Sampled:

Parameter	Units	Multipurpose Range	Result	Compliant with Multipurpose Range? (Y/N)	Compliant with Specific Purpose Range? (Y/N)		
Texture					Acid	Low F	Calc.
Clay content (Sub Contracted)	%		14				
Silt content (Sub Contracted)	%		26				
Sand content (Sub Contracted)	%		59				
Soil texture class		See Attached Chart	Sandy Loam	YES			
Mass Loss on Ignition							
Clay 5-20%		3.0-20	3.0	YES	YES	YES	YES
Clay 20-35%		5.0-20					
Stone Content	% m/m						
>2mm (Sub Contracted)		0-30	11	YES			
>20mm (Sub Contracted)		0-10	< 0.10	YES			
>50mm (Sub Contracted)		0	< 0.10	YES			
Soil pH value		5.5-8.5	8.2	YES	NO	YES	YES
Carbonate (Calcareous only)	%		5.9				YES
Electrical Conductivity	µS/cm	If >3300 do ESP	2000	YES			
Available Nutrient Content							
Nitrogen %		>0.15	0.16	YES	YES		YES
Extractable phosphorus	mg/l	16-140	39	YES	YES	NO	YES
Extractable potassium	mg/l	121-1500	180	YES	YES		YES
Extractable magnesium	mg/l	51-600	220	YES	YES		YES
Carbon : Nitrogen Ratio		<20:1	14.6/1	YES	YES	YES	YES
Exchangeable sodium	%	<15	0.88				
Available Calcium	mg/l		440				
Available Sodium	mg/l		27				
Phytotoxic Contaminants (by soil pH)		< 6.0	6.0-7.0	> 7.0			
Zinc (Nitric Acid extract)	mg/kg	<200	<200	<300	77	YES	
Copper (Nitric Acid extract)	mg/kg	<100	<135	<200	19	YES	
Nickel (Nitric Acid extract)	mg/kg	<60	<75	<110	16	YES	
Visible Contaminants	% mm						
>2mm		<0.5	0.000	YES			
..... of which plastics		<0.25	0.000	YES			
..... man-made sharps		zero in 1kg	0.000	YES			

Texture Classification Chart**Key**

Area within which the texture of topsoil is required to fall

NOTE Examples of textural classification are as follows.

- Soil A with 30% sand, 20% silt and 50% clay is in the "clay" textural class.
- Soil B with 55% sand, 30% silt and 15% clay is in the "sandy loam" textural class.
- Soil C with 45% sand, 50% silt and 5% clay is in the "sandy silt loam" textural class.

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British Standards can be obtained in PDF or hard copy formats from the BSI online shop: www.bsigroup.com/Shop or by contacting BSI Customer Services for hardcopies only: Tel: +44 (0)20 8996 9001, Email: cservices@bsigroup.com.

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
2020	Electrical Conductivity	Electrical conductivity (EC) of aqueous extract or calcium sulphate solution for topsoil	Measurement of the electrical resistance of a 2:1 water/soil extract.	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2115	Total Nitrogen in Soils	Nitrogen	Determination by elemental analyser	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2260	Carbonate	Carbonate	Titration	
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2400	Cations	Cations	ICP-MS	
2420	Phosphate	Phosphate	Spectrophotometry - Discrete analyser	
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.	
2620	LOI 440	LOI 440 Trommel Fines	Determination of the proportion by mass that is lost from a soil by ignition at 440°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

Water Sample Category Key for Accreditation

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

Report Information

RE - Recreational Water

SA - Saline Water

SW - Surface Water

TE - Treated Effluent

TS - Treated Sewage

UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up

MC - Mathematical Clean Up

FC - Florisil Clean Up

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

Appendix D Site Diaries

General Site Details

Site Name	Whinbush Road, Hitchin	Development Use	Residential
Date	21/08/2026	Groundwork Contractor	York Group
Engineer	DR	Developer	Viva Properties Group

Verification Action Undertaken

Plot No. / Area	Plantin area (north)	Exploratory Hole ID	VTP04
General Comment	Excavated an inspection pit to inspect depth and physical suitability of clean cover system.		
Samples Taken	N/A		
No-Dig / Demarcation Layers	Geotextile membrane at 600mm below ground level		
Physical Suitability	No undesirable or injurious objects were observed within any of the materials inspected, such as sharps, metals, plastics or over-sized materials, except for a few cobble-sized fragments of brick and concrete within the subsoil.		

Remediation Requirement		Observed Conditions (if applicable)	
Minimum Total Thickness:	≥ 600mm	Minimum Thickness:	Pit dug to 0.60m
Topsoil:	300mm	Topsoil:	600mm
Subsoil:	≥300mm	Subsoil:	-
Geotextile Marker:	N/A	Geotextile Marker:	600mm
No-Dig Layer:	N/A	No-Dig Layer:	N/A

Photographs Overleaf

Verification Outcome

Conclusion	The aspects considered under this inspection record have passed verification.
Exclusions	Where chemical analysis has been undertaken, please refer to the Verification Report for a discussion on the results and confirmation of compliance and chemical suitability.

General Site Details

Site Name	Whinbush Road, Hitchin	Development Use	Residential
Date	21/08/2026	Groundwork Contractor	York Group
Engineer	DR	Developer	Viva Properties Group

Photograph (in-situ soils):	Photograph (depth)
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Photograph (arisings):	Photograph (spatial)
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General Site Details

Site Name	Whinbush Road, Hitchin	Development Use	Residential
Date	21/08/2026	Groundwork Contractor	York Group
Engineer	DR	Developer	Vivia Properties Limited

Verification Action Undertaken

Plot No. / Area	Planting Area (south)	Exploratory Hole ID	VTP03
General Comment	Excavated an inspection pit to inspect depth and physical suitability of clean cover system. Pea gravel was encountered at the base of the pit.		
Samples Taken	N/A		
No-Dig / Demarcation Layers	Geotextile membrane at 600mm below ground level		
Physical Suitability	No undesirable or injurious objects were observed within any of the materials inspected, such as sharps, metals, plastics or over-sized materials, except for a few cobble-sized fragments of brick and concrete within the subsoil.		

Remediation Requirement		Observed Conditions (if applicable)	
Minimum Total Thickness:	≥ 600mm	Minimum Thickness:	Pit dug to 0.86m
Topsoil:	300mm	Topsoil:	860mm
Subsoil:	≥300mm	Subsoil:	-
Geotextile Marker:	N/A	Geotextile Marker:	(suspected below pea gravel)
No-Dig Layer:	N/A	No-Dig Layer:	N/A

Photographs Overleaf

Verification Outcome

Conclusion	The aspects considered under this inspection record have passed verification.
Exclusions	Where chemical analysis has been undertaken, please refer to the Verification Report for a discussion on the results and confirmation of compliance and chemical suitability.

General Site Details

Site Name	Whinbush Road, Hitchin	Development Use	Residential
Date	21/08/2026	Groundwork Contractor	York Group
Engineer	DR	Developer	Vivia Properties Limited

Photograph (in-situ soils):	Photograph (depth)
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Photograph (arising):	Photograph (spatial)
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Watching Brief Record

Project: Whinbush Road, Hitchin	Job No: STX7228	Engineer: DR
Day: Thursday	Date: 9/07/2026	Weather: Sunny

Brief description of general site works being carried out

Constrtuction of apartment blocks.

Purpose of the site visit

Inspection of topsoil covr placed in soft landscaped areas.

Details of the Site Inspection / Watching Brief

General Comments:

Site contact said that they are yet to fully lay the soil to GL depth and have ~400mm more soil material to lay down. There is currently one stockpile on site in Planting Area (south) which will be laid down in this area and depending on the results of the testing they will order more of the same material form the same supplier to import fot Planting Area (north).

Multiple hand pits were terminated early due to encountering pea gravel likely service trenches.

Geotextile membrane encountered at the base of the hand pit (where services were not encountered).

Planting Area (north) – depth of soil 0.20m bgl.

Planting Area (south) – depth of soil 0.30m to 0.40m bgl.

Material Description:

Soft brown slightly gravelly sandy CLAY with occasional rootlets. Gravel is fine to coarse subangular to subrounded flint, quartzite, concrete and brick. Rare fine to medium blunt glass fragments, plastic and fabric mesh encountered.

Details of any contamination observed:

Rare anthropogenic material including glass fragments, plastic and febrich mesh.

Samples Taken:

Planting Area (south)

VTP01A – Composite sample from 4 pits

VTP01B – Compositer sample from 2 pits

VSP01 – Stockpile

Planting Area (north)

VTP02 – 0.15m

Material Movements

N/A

Client instructions, variations, extra work:

Watching Brief Record

N/A

Projected programme:

N/A

Anticipated date / focus of next site visit

N/A

Photographic Evidence

Plantin Area (south):



P1 – geotextile membrane at 0.30m bgl



P2 – depth of soil cover



P3 – geotextile membrane at 0.30m bgl



P4 – Spatial photograph of southern planting area



P5 – Depth and example of soils



P6 – Spatial photograph of southern planting area

Planting Area (north):



P7 – Example of soils and geotextile membrane at the base



P8 – spatial photograph

Site Sketch



Watching Brief Record

Appendix E Chemical Testing Results

Certificate of Analysis

Certificate Number 26-17073

Issued: 29-Jul-26

Client Soiltechnics Ltd
White Lodge
Cedar Barn
Walgrave
NN6 9PY

Our Reference 26-17073

Client Reference ~ STX7228

Order No ~ POR026247

Contract Title ~ Whinbush Road

Description 3 Soil samples.

Date Received 13-Jul-26

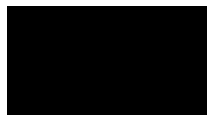
Date Started 13-Jul-26

Date Completed 29-Jul-26

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By



Reyhan Irfan
Operations Manager



Normec DETS Limited

Unit 2, Park Road Industrial Estate South, Consett, Co Durham, DH8 5PY
Tel: 01207 582333 • email: info-dets@normecgroup.com • normecdets.com

Summary of Chemical Analysis

Matrix Descriptions

Our Ref 26-17073

Client Ref ~ STX7228

Contract Title ~ Whinbush Road

Sample ID	Other ID	Depth	Lab No	Completed	Matrix Description
VSP01	2		2716582	29/07/2026	Brown gravelly, sandy CLAY including odd rootlets
VTP01B	4	0.3	2716583	29/07/2026	Brown gravelly, sandy CLAY including odd rootlets
VTP02	5	0.15	2716584	29/07/2026	Brown gravelly, sandy CLAY including odd rootlets

Summary of Chemical Analysis

Soil Samples

Our Ref 26-17073

Client Ref ~ STX7228

Contract Title ~ Whinbush Road

Lab No	2716582	2716583	2716584
Sample ID ~	VSP01	VTP01B	VTP02
Depth ~		0.30	0.15
Other ID ~	2	4	5
Sample Type ~	ES	ES	ES
Sampling Date ~	09/07/2026	09/07/2026	09/07/2026
Sampling Time ~	n/s	n/s	n/s

Test	Method	LOD	Units			
Preparation						
Moisture Content	DETSC 1004	0.1	%	8.7	7.0	8.1
Metals						
Arsenic	DETSC 2301#	0.2	mg/kg	17	24	20
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.2	0.2
Chromium	DETSC 2301#	0.15	mg/kg	16	22	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	140	34	52
Lead	DETSC 2301#	0.3	mg/kg	33	40	50
Mercury	DETSC 2325#	0.05	mg/kg	0.06	0.07	0.08
Nickel	DETSC 2301#	1	mg/kg	15	21	19
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	61	77	74
Inorganics						
pH	DETSC 2008#		pH	6.9	7.5	8.3
Organic matter	DETSC 2002#	0.1	%	5.0	5.9	2.4
Petroleum Hydrocarbons						
VPH (C6-C8): HS_1D_Total	DETSC 3321*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
VPH (C8-C10): HS_1D_Total	DETSC 3321*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
EPH (C10-C12): EH_1D_Total	DETSC 3311	10	mg/kg	< 10	< 10	< 10
EPH (C12-C16): EH_1D_Total	DETSC 3311	10	mg/kg	< 10	42	< 10
EPH (C16-C21): EH_1D_Total	DETSC 3311	10	mg/kg	32	380	40
EPH (C21-C40): EH_1D_Total	DETSC 3311	10	mg/kg	240	1100	230
TPH (C6-C40): EH+HS_1D_Total	DETSC 3311*	10	mg/kg	280	1600	280
PAHs						
Naphthalene	DETSC 3301	0.1	mg/kg	< 0.10	0.19	< 0.10
Acenaphthylene	DETSC 3301	0.1	mg/kg	< 0.10	0.39	< 0.10
Acenaphthene	DETSC 3301	0.1	mg/kg	< 0.10	0.49	< 0.10
Fluorene	DETSC 3301	0.1	mg/kg	< 0.10	1.6	< 0.10
Phenanthrene	DETSC 3301	0.1	mg/kg	0.14	0.35	0.47
Anthracene	DETSC 3301	0.1	mg/kg	< 0.10	0.56	0.12
Fluoranthene	DETSC 3301	0.1	mg/kg	0.32	1.5	< 0.10
Pyrene	DETSC 3301	0.1	mg/kg	0.34	19	< 0.10
Benzo(a)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	6.1	0.26
Chrysene	DETSC 3301	0.1	mg/kg	< 0.10	7.2	0.50
Benzo(b)fluoranthene	DETSC 3301	0.1	mg/kg	0.22	5.2	0.26
Benzo(k)fluoranthene	DETSC 3301	0.1	mg/kg	0.13	3.0	0.15
Benzo(a)pyrene	DETSC 3301	0.1	mg/kg	0.21	6.0	0.38
Indeno(1,2,3-c,d)pyrene	DETSC 3301	0.1	mg/kg	< 0.10	3.8	0.45
Dibenzo(a,h)anthracene	DETSC 3301	0.1	mg/kg	< 0.10	0.39	0.60
Benzo(g,h,i)perylene	DETSC 3301	0.1	mg/kg	< 0.10	3.4	0.34
PAH 16 Total	DETSC 3301	1.6	mg/kg	< 1.6	55	3.2

Summary of Asbestos Analysis Soil Samples

Our Ref 26-17073

Client Ref ~ STX7228

Contract Title ~ Whinbush Road

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2716582	VSP01 2	SOIL	NAD	none	Darryl Fletcher
2716583	VTP01B 4 0.30	SOIL	NAD	none	Darryl Fletcher
2716584	VTP02 5 0.15	SOIL	NAD	none	Darryl Fletcher

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 26-17073
 Client Ref ~ STX7228
 Contract ~ Whinbush Road

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2716582	VSP01 SOIL	09/07/26	GJ 250ml, GJ 60ml, PT 1L x2		
2716583	VTP01B 0.30 SOIL	09/07/26	GJ 250ml, GJ 60ml, PT 1L x2		
2716584	VTP02 0.15 SOIL	09/07/26	GJ 250ml, GJ 60ml, PT 1L x2		

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
 Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
 The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
 Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Information in Support of the Analytical Results

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det
VPH (C6-C8)

Acronym
HS_1D_Total

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETS 2002	Organic matter	%	0.1	Air Dried	No	Yes	Yes
DETS 2003	Loss on ignition	%	0.01	Air Dried	No	Yes	Yes
DETS 2008	pH	pH Units	1	Air Dried	No	Yes	Yes
DETS 2076	Sulphate Aqueous Extract as SO ₄	mg/l	10	Air Dried	No	Yes	Yes
DETS 2084	Total Organic Carbon	%	0.5	Air Dried	No	Yes	Yes
DETS 2119	Ammoniacal Nitrogen as N	mg/kg	0.5	Air Dried	No	Yes	Yes
DETS 2130	Cyanide free	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2130	Cyanide total	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2130	Phenol - Monohydric	mg/kg	0.3	Air Dried	No	Yes	Yes
DETS 2130	Thiocyanate	mg/kg	0.6	Air Dried	No	Yes	Yes
DETS 2301	Arsenic	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Barium	mg/kg	1.5	Air Dried	No	Yes	Yes
DETS 2301	Beryllium	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Cadmium Available	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2301	Cadmium	mg/kg	0.1	Air Dried	No	Yes	Yes
DETS 2301	Cobalt	mg/kg	0.7	Air Dried	No	Yes	Yes
DETS 2301	Chromium	mg/kg	0.15	Air Dried	No	Yes	Yes
DETS 2301	Copper	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2301	Manganese	mg/kg	20	Air Dried	No	Yes	Yes
DETS 2301	Molybdenum	mg/kg	0.4	Air Dried	No	Yes	Yes
DETS 2301	Nickel	mg/kg	1	Air Dried	No	Yes	Yes
DETS 2301	Lead	mg/kg	0.3	Air Dried	No	Yes	Yes
DETS 2301	Selenium	mg/kg	0.5	Air Dried	No	Yes	Yes
DETS 2301	Zinc	mg/kg	1	Air Dried	No	Yes	Yes
DETS 2311	Boron (water soluble)	mg/kg	0.2	Air Dried	No	Yes	Yes
DETS 2321	Total Sulphate as SO ₄	%	0.01	Air Dried	No	Yes	Yes
DETS 2325	Mercury	mg/kg	0.05	Air Dried	No	Yes	Yes
DETS 3049	Sulphur (free)	mg/kg	0.75	As Received	No	Yes	Yes
DETS 3072	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETS 3072	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETS 3072	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETS 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETS 3072	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETS 3072	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETS 3072	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETS 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETS 3303	Acenaphthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Acenaphthylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(a)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(b)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(k)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Benzo(g,h,i)perylene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Dibenzo(a,h)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETS 3303	Fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETSC 3303	Indeno(1,2,3-c,d)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Naphthalene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Phenanthrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3311	C10-C24 Diesel Range Organics (DRO)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3311	C24-C40 Lube Oil Range Organics (LORO)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3311	EPH (C10-C40)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3321	Benzene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	Ethylbenzene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	Toluene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	m+p Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	o Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 28 + PCB 31	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 52	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 101	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 118	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 153	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 138	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 180	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB Total	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3521	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETSC 3521	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETSC 3521	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3521	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETSC 3521	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETSC 3521	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
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Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report

Appendix F GQRA

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Not undertaken			
Chronic human health risk - Soils	Completed	30.07.2026	AP	JB
Chronic human health risk - Groundwater vapour	Not undertaken			
Controlled waters risk - Surface water	Not undertaken			
Controlled waters risk - Drinking water	Not undertaken			
Controlled waters - Free phase indicator	Not undertaken			
Phytotoxicity	Not undertaken			
Ecotoxicity	Not undertaken			

Key

Assessment	Abbr.	GQRA Source (in order of preference)	Last Update
All	NGA	No guideline value available	-
Chronic human health risk - Soils	C4SL	Category 4 Screening Levels (DEFRA)	May 2021
	S4UL	Suitable 4 Use Levels (LQM)	August 2015
	ATK	Atrisk Soil Screening Values (Atkins)	June 2017
	CL:AIRE	Generic Assessment Criteria (CL:AIRE)	Jan 2010

Chronic human health risk (soils)

Scenario			
End user	Proposed site user		
Receptor	Residential with homegrown produce		
SOM	2.50%		
GAC Preference	C4SLs over S4ULs		
Unspeciated TPH GAC	Worst-case aliphatic/aromatic		

Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	VSP01	VTP01B	VTP02
				Depth (m)	0.00	0.30	0.15
				Date	09/07/26	09/07/26	09/07/26
Inorganics - Metals							
Arsenic	C4SL	37	24		17	24	20
Cadmium	C4SL	22	0.2		0.1	0.2	0.2
Chromium (III)	S4UL	910	23		16	22	23
Chromium (VI)	C4SL	21	<LoD		< 1.0	< 1.0	< 1.0
Copper	S4UL	2400	140		140	34	52
Lead	C4SL	200	50		33	40	50
Mercury	S4UL	40	0.08		0.06	0.07	0.08
Nickel	S4UL	130	21		15	21	19
Selenium	S4UL	250	<LoD		< 0.5	< 0.5	< 0.5
Zinc	S4UL	3700	77		61	77	74
Inorganics - Asbestos							
Asbestos Screen		N/A			NAD	NAD	NAD
Inorganics - Soil Parameters							
Organic matter		N/A			5	5.9	2.4
Organics - PAH & Phenol							
Acenaphthene	S4UL	510	0.49		< 0.10	0.49	< 0.10
Acenaphthylene	S4UL	420	0.39		< 0.10	0.39	< 0.10
Anthracene	S4UL	5400	0.56		< 0.10	0.56	0.12
Benzo(a)anthracene	S4UL	11	6.1		< 0.10	6.1	0.26
Benzo(a)pyrene	C4SL	5	6		0.21	6	0.38
Benzo(b)fluoranthene	S4UL	3.3	5.2		0.22	5.2	0.26
Benzo(ghi)perylene	S4UL	340	3.4		< 0.10	3.4	0.34
Benzo(k)fluoranthene	S4UL	93	3		0.13	3	0.15
Chrysene	S4UL	22	7.2		< 0.10	7.2	0.5
Dibenz(a,h)anthracene	S4UL	0.28	0.6		< 0.10	0.39	0.6
Fluoranthene	S4UL	560	1.5		0.32	1.5	< 0.10
Fluorene	S4UL	400	1.6		< 0.10	1.6	< 0.10
Indeno(1,2,3-cd)pyrene	S4UL	36	3.8		< 0.10	3.8	0.45
Naphthalene	C4SL	36	0.19		< 0.10	0.19	< 0.10
Phenanthrene	S4UL	220	0.47		0.14	0.35	0.47
Pyrene	S4UL	1200	19		0.34	19	< 0.10
Organics - Banded TPH (unspeciated)							
EC >7-EC8 (unspeciated)	S4UL	230	<LoD		< 0.1	< 0.1	< 0.1
EC >08-EC10 (unspeciated)	S4UL	65	<LoD		< 0.1	< 0.1	< 0.1
EC >10-EC12 (unspeciated)	S4UL	180	<LoD		< 10	< 10	< 10
EC >12-EC16 (unspeciated)	S4UL	330	42		< 10	42	< 10
EC >16-EC21 (unspeciated)	S4UL	540	380		32	380	40
EC >21-EC40 (unspeciated)	S4UL	1500	1100		240	1100	230

Chronic human health risk (soils)

Scenario							
End user	Proposed site user						
Receptor	POS (Residential)						
SOM	2.50%						
GAC Preference	C4SLs over S4ULs						
Unspeciated TPH GAC	Worst-case aliphatic/aromatic						
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	VSP01	VTP01B	VTP02
				Depth (m)	0.00	0.30	0.15
				Date	09/07/26	09/07/26	09/07/26
Inorganics - Metals							
Arsenic	C4SL	79	24		17	24	20
Cadmium	C4SL	220	0.2		0.1	0.2	0.2
Chromium (III)	S4UL	1500	23		16	22	23
Chromium (VI)	C4SL	21	<LoD		< 1.0	< 1.0	< 1.0
Copper	S4UL	12000	140		140	34	52
Lead	C4SL	630	50		33	40	50
Mercury	S4UL	120	0.08		0.06	0.07	0.08
Nickel	S4UL	230	21		15	21	19
Selenium	S4UL	1100	<LoD		< 0.5	< 0.5	< 0.5
Zinc	S4UL	81000	77		61	77	74
Inorganics - Asbestos							
Asbestos Screen		N/A			NAD	NAD	NAD
Inorganics - Soil Parameters							
Organic matter		N/A			5	5.9	2.4
Organics - PAH & Phenol							
Acenaphthene	S4UL	15000	0.49		< 0.10	0.49	< 0.10
Acenaphthylene	S4UL	15000	0.39		< 0.10	0.39	< 0.10
Anthracene	S4UL	74000	0.56		< 0.10	0.56	0.12
Benzo(a)anthracene	S4UL	29	6.1		< 0.10	6.1	0.26
Benzo(a)pyrene	C4SL	10	6		0.21	6	0.38
Benzo(b)fluoranthene	S4UL	7.2	5.2		0.22	5.2	0.26
Benzo(ghi)perylene	S4UL	640	3.4		< 0.10	3.4	0.34
Benzo(k)fluoranthene	S4UL	190	3		0.13	3	0.15
Chrysene	S4UL	57	7.2		< 0.10	7.2	0.5
Dibenz(a,h)anthracene	S4UL	0.57	0.6		< 0.10	0.39	0.6
Fluoranthene	S4UL	3100	1.5		0.32	1.5	< 0.10
Fluorene	S4UL	9900	1.6		< 0.10	1.6	< 0.10
Indeno(1,2,3-cd)pyrene	S4UL	82	3.8		< 0.10	3.8	0.45
Naphthalene	C4SL	15000	0.19		< 0.10	0.19	< 0.10
Phenanthrene	S4UL	3100	0.47		0.14	0.35	0.47
Pyrene	S4UL	7400	19		0.34	19	< 0.10
Organics - Banded TPH (unspeciated)							
EC >7-EC8 (unspeciated)	S4UL	56000	<LoD		< 0.1	< 0.1	< 0.1
EC >08-EC10 (unspeciated)	S4UL	5000	<LoD		< 0.1	< 0.1	< 0.1
EC >10-EC12 (unspeciated)	S4UL	5000	<LoD		< 10	< 10	< 10
EC >12-EC16 (unspeciated)	S4UL	5100	42		< 10	42	< 10
EC >16-EC21 (unspeciated)	S4UL	3800	380		32	380	40
EC >21-EC40 (unspeciated)	S4UL	3800	1100		240	1100	230

