

PHASE 2 REPORT ON A SITE INVESTIGATION

Site

**PALMERS AUTOCENTRE TYRES,
TURNERS HILL ROAD, CRAWLEY DOWN,
WEST SUSSEX RH10 4HQ**

Client

J W STRATTON LTD

Report Ref

24/12836/A/GO

Issued

MAY 2024



ALBURY S.I. LTD

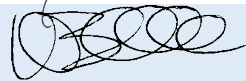
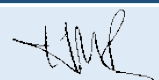
Geotechnical and Environmental Consultants

Miltons Yard, Petworth Road,
Witley, Surrey GU8 5LH

T: 01428 684 836

info@alburysi.co.uk

www.alburysi.co.uk

DOCUMENT CONTROL			
Report Title	Phase 2 Report on a Site Investigation		
Contract	Tuners Hill Road, Crawley Down		
Report Reference	24/12836/A/GO		
Client	J W Stratton Ltd		
Prepared by	G C D Owens BSc MSc FGS MEnvSc Director		
Reviewed by	K J Clark BSc Hons Director		
Revision No.	Status	Date of Issue	Final Issue Check
0	Final	08/05/2024	

Albury S.I. Limited has prepared this Report with reasonable skill and care for the sole use of the Client in accordance with the terms and conditions of the contract under which our services were provided. No duty of care and no contractual obligation (whether expressed or implied) is owed to any third party. Should any third party rely on this Report then they do so at their own risk and Albury S.I. Limited shall have no liability whether in contract or in tort, in negligence, for breach of statutory duty or otherwise to any such party. No warranty, expressed or implied, is made as to the professional advice included in this Report or any services provided by Albury S.I. Limited.

This Report is prepared for the specific purpose stated and in relation to the development proposals or usage indicated to Albury S.I. Limited at the time of preparation. The recommendations should not be used for adjacent schemes and may not be appropriate for alternative proposals.

The recommendations made and opinions expressed in this Report are based on the strata conditions revealed by the fieldworks as indicated on the exploratory records, together with an assessment of the data from in situ and laboratory tests. No liability can be accepted for conditions which have not been revealed by the fieldworks, for example, between exploratory positions. While this Report may offer opinions on the possible configuration of strata, both between the excavations and below the maximum depth achieved by the investigation, these comments are for guidance only and no liability can be accepted for their accuracy. The data obtained relate to the conditions which are relevant at the time of the investigation.

The groundwater observations entered on exploratory records are those noted at the time of the investigation. The normal rate of progress does not usually permit the recording of any equilibrium water level for any one water strike. It should be noted that groundwater levels are prone to seasonal variation and to changes in local drainage conditions. The word 'none' indicates that groundwater was sealed off by the borehole casing or that no water was observed in the exploratory hole upon completion.

REPORT REF: 24/12836/A/GO

CONTRACT: TURNERS HILL ROAD, CRAWLEY DOWN

TABLE OF CONTENTS

SYNOPSIS	1
1 INTRODUCTION.....	1
1.1 Aims and Objectives.....	1
1.2 Scope of Works	1
2 FIELDWORKS.....	2
2.1 Site Works	2
2.2 Installations.....	2
3 GROUND CONDITIONS	2
3.1 Geology	2
3.2 Stratigraphy.....	3
3.3 In Situ Testing.....	3
3.4 Groundwater.....	4
3.5 Monitoring	4
4 LABORATORY TESTING	4
4.1 Water Content	4
4.2 Index Properties.....	4
4.3 Particle Size Distribution	5
4.4 Chemical Testing – Soluble Sulphates & pH.....	5
4.5 Geochemical Testing.....	5
5 GEOTECHNICAL DISCUSSION	5
5.1 Foundations	5
5.2 Stability of Excavations	6
5.3 Groundwater.....	6
5.4 Drainage.....	7
5.5 Ground Floor Slabs.....	7
5.6 Buried Concrete	7
6 GROUND CONTAMINATION	7
6.1 Human Health	8
6.2 Discovery Strategy	9
6.3 Groundwater.....	9
6.4 Vegetation.....	10
6.5 Preliminary Waste Assessment.....	10
6.6 Potable Water Supply Pipes.....	10
6.7 Ground Gases.....	11
REFERENCES	
LIST OF ABBREVIATIONS	

FIGURES

- 1 Site Plan
- 2 Proposed Layout

APPENDICES

- 1 Exploratory Records
- 2 Calibration Certificates
- 3 Laboratory Test Results
- 4 Desiccation
- 5 Waste
- 6 Monitoring Data

SYNOPSIS

This investigation has demonstrated that made ground overlies soils associated with the Upper Tunbridge Wells Sand Formation of Cretaceous age. Strip or spread foundations located at a minimum depth of 1.00m and in accordance with NHBC criteria, on the basis of medium volume change potential, can be designed to apply a maximum increase in load of 150kPa. The groundwater observations made at the time of the investigation suggest that problems with respect to shallow depth excavations are unlikely.

The contamination testing has recorded isolated high levels of PAH and remedial measures will be necessary as part of the proposed redevelopment. However, the ground gas monitoring has not detected any significant levels of ground gases and, coupled with the anticipated ground conditions, specific remedial measures in this regard are not necessary as part of the proposed redevelopment.

1 INTRODUCTION

1.1 Aims and Objectives

The Client proposes to construct 4 no two storey detached dwellings following the demolition of the existing structures at Palmers Autocentre Tyres, Turners Hill Road, Crawley Down ("the site"). Accordingly, an exploratory investigation into ground conditions has been made to assess the impact from historical usage and to obtain data to inform a land contamination risk assessment. The data obtained will also assist in the formulation of a safe and economic foundation solution.

A previous Phase 1 Desk Study with walkover survey, undertaken by Albury S.I. Ltd in March 2024, identified potentially contaminative past uses and should be read in conjunction with this report. Briefly, the site has historical use as a motor repairs garage and earlier a wheelwright. An historic landfill has also been identified within 250m north west of the site. Accordingly, recommendations were made for a targeted intrusive investigation and long-term ground gas monitoring.

1.2 Scope of Works

The programme of this investigation comprised the construction of seven boreholes using hand-held window sampling techniques, with the installation of three standpipes to enable long-term ground gas monitoring. During this work samples were recovered for further examination and laboratory testing. In addition, screening of samples for volatile organic compounds (VOC) and in situ hand shear vane testing was performed. A small scale falling

head test was conducted within one of the boreholes. This report describes the work undertaken, presents the information obtained and discusses the ground conditions with respect to foundation design and the long-term risks from land contamination.

2 FIELDWORKS

2.1 Site Works

The boreholes were constructed on 2nd April 2024 at locations as shown on the site plan, drawing no. 24/12836/A/1, which is presented as Figure 1. The exploratory positions were located targeting potential sources of contamination identified within the Desk Study, taking account of the proposed layout and areas of private garden. Specifically, boreholes 4 and 6 were located adjacent to above ground storage tanks and borehole 1 was located in the area of a former vehicle inspection pit.

The depths and descriptions of the strata encountered in the boreholes are given on the records which comprise Appendix 1 to this report. These records note the depths at which samples were taken, the results of in situ tests and the groundwater observations noted at the time of the fieldworks.

The ground levels at the exploratory locations range between 111.0mOD to 111.7mOD and are based upon the levels contained within the topographical survey dated November 2021. The internal floor level at borehole 7 is not known, however, it appears visually to be level with the remainder of the site.

2.2 Installations

Upon completion of boreholes 3, 5 and 6 standpipes were installed in order to carry out long-term ground gas monitoring. These comprised of plain pipe between ground level and 0.50m extended by slotted pipe with geosock filter to depths of 1.60m, 2.50m and 2.70m. Each position was provided with a gas valve and upright plastic cover at surface.

3 GROUND CONDITIONS

3.1 Geology

Reference to the earlier Desk Study indicates the site as being underlain by the Upper Tunbridge Wells Sand Formation of Cretaceous age.

3.2 Stratigraphy

Consideration of the borehole records indicates that either leaf mould, block paving, asphalt over dark reddish brown sandy gravel of stone or made ground was encountered at surface at the exploratory positions. This concealed made ground of variable composition, which was proved to depths of between 0.20m and 0.80m. A further layer of concrete, 100mm in thickness, was encountered within boreholes 4 and 5 from 0.40m to 0.50m.

Orangish brown and light very silty clay with occasional siltstone fragments was generally exposed beneath the made ground and was proved to depths of 1.25m and 1.70m within boreholes 3 and 2, extending to 2.40m and 2.70m within boreholes 6 and 4. These cohesive soils contain interbedded buff fine very silty sand and brownish grey very sandy fine silt at depth within boreholes 1 and 5, which is typical of the variable lithology of the Upper Tunbridge Wells Sand Formation. Buff and light grey sandy silt with rare siltstone fragments was encountered below the cohesive soils within boreholes 2, 3, 4 and 6. The boreholes were concluded within this stratum at depths of between 1.60m and 3.10m due to limited penetration.

3.3 In Situ Testing

During the sampling measurement of soil vapours [VOC] was carried out on the samples of the soils taken using a PhoCheck Tiger PID meter. The composite sample is placed within a sealed plastic bag with a limited air space (headspace) which allows vapours to enter following agitation of the sample bag. The headspace is then measured using the PID meter and the results recorded in ppm as an indicative total VOC. The maximum TVOC recorded during this work was 5.1ppm and 5.4ppm at 1.50m and 3.00m depth within borehole 6, possibly indicating some residual or historic hydrocarbon contamination within this area of the site.

The remaining locations typically ranging between zero to 1.2ppm, which is indicative of normal background concentrations. Moreover, no visual or olfactory evidence of contamination was apparent during the sampling. The calibration certification for the instrument is included in Appendix 2.

During the construction of the boreholes a series of in situ hand shear vane tests were performed using the Geonor Shear Vane test equipment. Shear strengths ranging between 100kPa and >220kPa were recorded reflecting the stiff to very stiff in situ condition for a cohesive soil.

A small-scale falling head test was attempted within borehole 2 to assess drainage characteristics, however, after 60 minutes no dissipation of water was apparent and the test was abandoned.

3.4 Groundwater

During the construction of boreholes 3, 6 and 7 groundwater was struck at depths of 1.55m, 2.70m and 1.55m, with corresponding standing water levels also observed at these depths upon completion. The remaining locations were observed to remain dry throughout.

3.5 Monitoring

Return visits were made on 16th April and 3rd May 2024 to monitor the standpipes installed as part of the intrusive investigation. The monitoring data is included as Appendix 6 and the water levels are summarised in tabular form below.

Table 1 – Summary of Groundwater Levels		
Date	Position	Water Level m
16/04/2024	3	0.56
	5	1.14
	6	0.71
03/05/2024	3	0.49
	5	0.64
	6	0.56

4 LABORATORY TESTING

A programme of laboratory testing has been undertaken and the results are presented as Appendix 3 to this report. The geotechnical soil testing was undertaken by Albury S.I. Ltd, whilst representative samples were submitted for geochemical testing at the UKAS accredited laboratories operated by i2 Analytical Ltd. Each type of test is summarised below and the results obtained have been used to assist in the formulation of the discussion.

4.1 Water Content

The water contents of samples of the soils encountered at this site have been determined. Water contents within the range 16.2% to 22.0% have been recorded.

4.2 Index Properties

The liquid and plastic limits of samples of the clay soils have been determined. The results of this work indicate that the samples tested can generally be described as inorganic clays of variable plasticity and of low to medium volume change potential.

4.3 Particle Size Distribution

Two samples of the soils encountered at this site have been subjected to sieve and sedimentation analysis in order to determine the soils' particle size distribution. The results of this work are presented in the form of grading curves.

4.4 Chemical Testing – Soluble Sulphates & pH

Five samples of the soils encountered at this site have been subjected to chemical analyses in order to determine their soluble sulphate contents and pH values. Under the conditions of this work low concentrations of soluble sulphate of less than 0.25mg/L have been recorded in association with pH values of 4.7 to 6.7.

4.5 Geochemical Testing

Six samples of the made ground from between 0.10m and 0.50m depth have been submitted to the UKAS accredited laboratories operated by i2 Analytical Ltd. The testing comprises a suite of typical inorganic and organic priority contaminants including metals, PAH, TPH CWG and an asbestos screen. Based upon the in-situ PID results, the samples from borehole 6 at depths of 0.50m, 1.50m and 2.50m and borehole 7 at 0.20m were subjected to SVOC and VOC analysis.

Based upon the initial round of testing further samples from boreholes 3 and 6 at 0.30m and 0.50m depth were subjected to heavy metal analysis, with an additional sample from borehole 4 at 0.75m subjected to speciated PAH analysis.

5 GEOTECHNICAL DISCUSSION

5.1 Foundations

The Client proposes to construct 4 no detached two storey dwellings and the proposed layout is shown in Figure 2. At the time of the preparation of this report the anticipated structural loads were not known.

It cannot be recommended that major structural foundations be located within the made ground revealed by this investigation. Soils of this origin are frequently present in a weak and variable condition such that unacceptable settlement could occur even under the action of light loading intensities. Therefore, it will be necessary to continue foundation excavations through these undesirable materials where they are of less than 1.00m in thickness to this minimum depth in order to avoid that zone of soil which is subject to normal seasonal moisture variation or frost action. The above precautions need not necessarily be applied to

light ancillary structures, which will be formed structurally discrete from the main development and in which a greater degree of settlement can be tolerated.

It is known that a number of mature trees are present around the perimeter of the site, in the vicinity of the proposed structures. These include several Horse Chestnuts along the north east boundary and a Poplar on the southern boundary. A discussion of the causes, effects and classification of desiccation in clay soils is included in Appendix 4 to this report. Consideration of the results of the laboratory testing suggests that moisture deficiency may have developed at 1.00m depth within borehole 3 and within borehole 4. It will be necessary, therefore, to locally extend foundations in these areas to depths of 1.50m and 2.50m, with soils at and below this level being of low volume change potential. The final foundation depths should be in agreement with NHBC criteria, taking into account any existing or proposed trees, on the basis that the upper margins of these soils are of medium volume change potential.

Strip or spread foundations constructed within the Upper Tunbridge Wells Sand Formation, at a minimum depth of 1.00m and in accordance with NHBC criteria, can be designed to accept a maximum increase in load of 150kPa. At this loading intensity a factor of safety of 3 against general shear failure will be operative. Moreover, settlements should remain within tolerable limits for the type of structure proposed and occur an extended period post construction.

5.2 Stability of Excavations

Excavations of less than 1.00m depth should not require temporary support to their sides. Where foundation excavations are to be extended below this level, then adequate temporary support or shoring should be provided in order to comply with current statutory safety regulations and to maintain the stability of the excavation sides.

5.3 Groundwater

The groundwater observations made at the time of the fieldworks suggest that significant engineering problems with respect to shallow depth excavations are unlikely. However, the subsequent monitoring has recorded high groundwater levels, possibly perched within the made ground. It should be appreciated that groundwater levels can vary with season and recent months have experienced increased levels of rainfall.

A series of trial excavations should be performed to confirm whether groundwater will be encountered and whether these minor amounts can be controlled by pumping from sumps.

The cohesive soils revealed in this investigation are susceptible to rapid softening in the unconfined state. Where excavations are to be left open for extended periods then the bases

should be blinded using leanmix concrete following final trimming to prevent deterioration of the founding medium.

5.4 Drainage

The near surface drainage characteristics of the underlying soils have been considered as part of this investigation. It is believed that these would be a poor drainage medium and alternative means of surface water disposal should be considered.

5.5 Ground Floor Slabs

The thickness of made ground revealed by this investigation, commonly in excess of 0.60m, infers that a system of fully suspended floor slabs should be incorporated within the proposed structures in accordance with NHBC criteria.

5.6 Buried Concrete

The information obtained from this investigation has been compared with the criteria proposed in BRE Special Digest 1, 2005 Edition, Concrete in Aggressive Ground. Using the information in C2 (brownfield locations) of this publication the Aggressive Chemical Environment for Concrete Classification (ACEC) is AC-1s, which coincides with a Design Sulphate Class DS-1. The ACEC Class above can be used to determine the Design Chemical Class for concrete for general cast-in-situ use as required in Part D of the Digest.

6 GROUND CONTAMINATION

A Conceptual Site Model (CSM) was formulated for this site as part of the Phase 1 Desk Study, which informed the current Phase 2 intrusive investigation. The CSM produced as part of the Desk Study has been revised and is presented in tabular form below.

Table 2 - Conceptual Site Model			
Source(s)	Potential Pathway(s)	Receptor(s)	Risk Level
Landfill within 80m north of site <i>Ground Gases</i> (CO ₂ and CH ₄) - Degradation of hydrocarbons - Ingress of volatile hydrocarbons (VOC, CO ₂ & CH ₄)	Migration, ingress and accumulation	Proposed and existing buildings	Negligible

Made ground associated with demolition of previous structures Former Orchard <i>Asbestos/ACM</i> <i>Heavy Metals</i> <i>PAH</i>	Dermal contact, ingestion and inhalation	Site Workers, Future Residents,	Moderate
Motor Repairs Garage Used Engine Oil <i>Mineral Oil range hydrocarbons, heavy metals</i> Dead Can Store – Petrol <i>BTEX Compounds & Lead</i> Paint Spraying, Cleaners/Degreasers <i>SVOC & VOC</i>	Dermal contact, ingestion and inhalation	Site Workers, Future Residents,	Moderate
	Leaching/migration through shallow soils	Groundwater (Secondary Aquifer)	Low
		Potable Water Supply Pipes	Moderate

6.1 Human Health

A generic assessment of the chronic or long-term risk to human health from soil contamination has been made using the available generic screening criteria. The screening values include the Category 4 Screening Levels [C4SLs] (DEFRA, 2014) and Suitable for Use Levels [S4ULs] (LQM/CIEH, 2014) derived using the CLEA software. It should be appreciated that these do not consider the short-term or acute risks, such as to construction workers or SI personnel.

The results have been compared against the GAC for the proposed land-use criteria Residential (with homegrown produce) and 2.5% SOM. A summary table of the results and highlighted exceedances is included in Appendix 3. A study of the data reveals a single highly elevated level of PAH and associated aromatic hydrocarbons at the location of borehole 4 at 0.50m depth. Consideration of the PAH double ratio plot infers that the source is coal tar derived, as opposed to petroleum oils or fuels. There are also elevated levels of lead of 610mg/kg at borehole 3 at 0.10m and 300 mg/kg at borehole 6 at 0.30m depth, which exceed the C4SL GAC of 200mg/kg. The results of the additional testing at these locations indicate that these exceedances are restricted to the near surface and that the soils at depth are suitable for Residential use.

No measurable concentrations of volatile compounds (VOC) were recorded within the testing and the majority of the results are below the limits of detection, with the exception of dibutyl phthalate and butyl benzene phthalate (plasticizers). No vapour risk is evident from these results and specialist protection measures not necessary.

The site presently has little or no useable topsoil and it will be necessary to import clean soils to form a growing medium in areas of soft landscaping and private garden amenity. A minimum thickness of 150mm clean topsoil is suggested, however, this will be dependent upon any specific landscaping requirements. Any imported soils should be certified clean and from an approved source. The use of topsoil and/or subsoil from non-greenfield sources such as screened, blended or recycled sources are discouraged. The details should be outlined within a formal Remediation Method Statement.

6.2 Discovery Strategy

Given most of the external areas are covered by existing structures or asphalt, any visual evidence of historical contamination can be concealed. Thus, it would be advisable that the site manager maintain a discovery strategy or watching brief during the lifting of hardstanding. Should any potential sources of contamination be identified following the enabling works, they should be fully investigated by a competent person to ensure that the correct remedial measures are employed if considered necessary. The watching brief would comprise the regular inspection of all excavations. If any materials suspected of containing contamination, such as oily material or soils of unusual colouration or odour are identified, then the following procedures should be adopted.

- Work to cease in that area.
- Notify the geoenvironmental engineer to attend site and carry out sampling and testing of suspected contaminated material, which should be segregated and stockpiled within a bunded area and covered to prevent rainfall infiltrating.
- Notify the Local Authority Contaminated Land Officer, where appropriate, or if amendments to the remediation plan area are necessary.
- Soil sampling of excavated area from bases and sides to demonstrate the area of contamination has been excavated.
- Photographic evidence of all stages of the development, particularly of any excavations, should be routinely kept and retained. Detailed records of any stockpiled material, its size and location, together with any duty of care transfer notes. Where necessary, this information should be incorporated within the final validation report.

6.3 Groundwater

The site is underlain by a minor or Secondary A aquifer, which is of low sensitivity and is not at risk from the recorded concentrations of heavy metals and semi-volatile PAH compounds.

6.4 Vegetation

The metals boron, copper, nickel and zinc are phytotoxic at certain levels, with their availability being dependent upon soil pH. These levels may not pose a significant long-term health risk to humans, but could be detrimental to plant growth or function. The results obtained suggest that problems in this regard are not anticipated.

6.5 Preliminary Waste Assessment

It is likely that, if excavated soils cannot be re-used or retained on site, these surplus materials will require off-site disposal. It may be possible to divert the unwanted material to a soil treatment hub where it can be recycled. Where material cannot be re-used or recycled then disposal at a licensed landfill site can be considered. It will then be necessary to classify the spoil as inert, non-hazardous or hazardous. A discussion of the current regime for the classification and treatment of waste soils is included in Appendix 5.

An initial assessment of the geochemical results obtained from this investigation has been carried out to provide a preliminary classification of the surplus materials. The HazWaste Online tool determines whether waste soil should be classified as being non-hazardous or hazardous. The output from the HazWaste assessment is located in Appendix 5. Asbestos was not detected in any of the samples screened. Based on the output waste soil arisings from borehole 4 are deemed to be hazardous for disposal purposes, due to the concentration of hydrocarbons. If hazardous material is to be disposed at a licensed waste landfill site then supplementary waste acceptance criteria [WAC] testing may also be required. Confirmation should be sought from the relevant licensed waste handler or landfill operator. The remaining locations are considered to be non-hazardous for disposal purposes. The underlying natural soils are considered to be inert for disposal purposes.

This assessment is preliminary and based upon the information obtained from the investigation. Where made ground is excavated then these materials should be stockpiled and segregated. Further sampling, testing and characterisation to accurately classify waste soil arisings may be required. It should be appreciated that it is the responsibility of the waste producer to sufficiently characterise their waste. Moreover, the agreement of the waste acceptor should be sought.

6.6 Potable Water Supply Pipes

The requirements of the water supply company should be sought with regard to an incoming potable water supply pipes. Given the historical use of the site and presence of elevated levels of petroleum hydrocarbons it would be prudent to incorporate hydrocarbon resistance barrier pipe for incoming water supply pipes.

6.7 Ground Gases

The Desk Study highlighted a limited potential risk posed by ground gas generation from historic landfill within 80m of the site. Accordingly, three standpipes were installed across the site and a regime of ground gas monitoring undertaken. The calibration certification for the instrument is included in Appendix 2.

Two visits have been made to date to monitor the standpipes and the results of the monitoring are included in Appendix 6. The results have been reviewed in accordance with BS 8485 (2015) Code of Practice for the characterisation and remediation of ground gas in effected developments.

The hazardous gas flow rate has been determined based upon the worst case from these monitoring visits, which are a carbon dioxide of 1.1% together with zero flow (0.0l/h). No methane was recorded on either visit.

Q_{hg}	=	$(C_{hg}/100)q$
Q_{hg}	=	$(1.1/100) \times 0.0$
Q_{hg}	=	0.0l/h
where:		
Q_{hg}	=	calculated hazardous gas flow rate/gas screening value
C_{hg}	=	measured hazardous gas concentration
q	=	measured flow rate

Based upon the calculated gas screening value of 0.0 litres/hour, the hazard potential of the site can be considered very low or characteristic gas situation 1. Therefore, no remedial or specific protection measures will be required regarding ground gas.

Current guidance indicates that six monitoring rounds should be undertaken to fully classify this site in terms of its ground gas regime. However, in view of the ground conditions revealed, the low levels of ground gases recorded over the visits and zero flow, further monitoring visits are not warranted.

REFERENCES

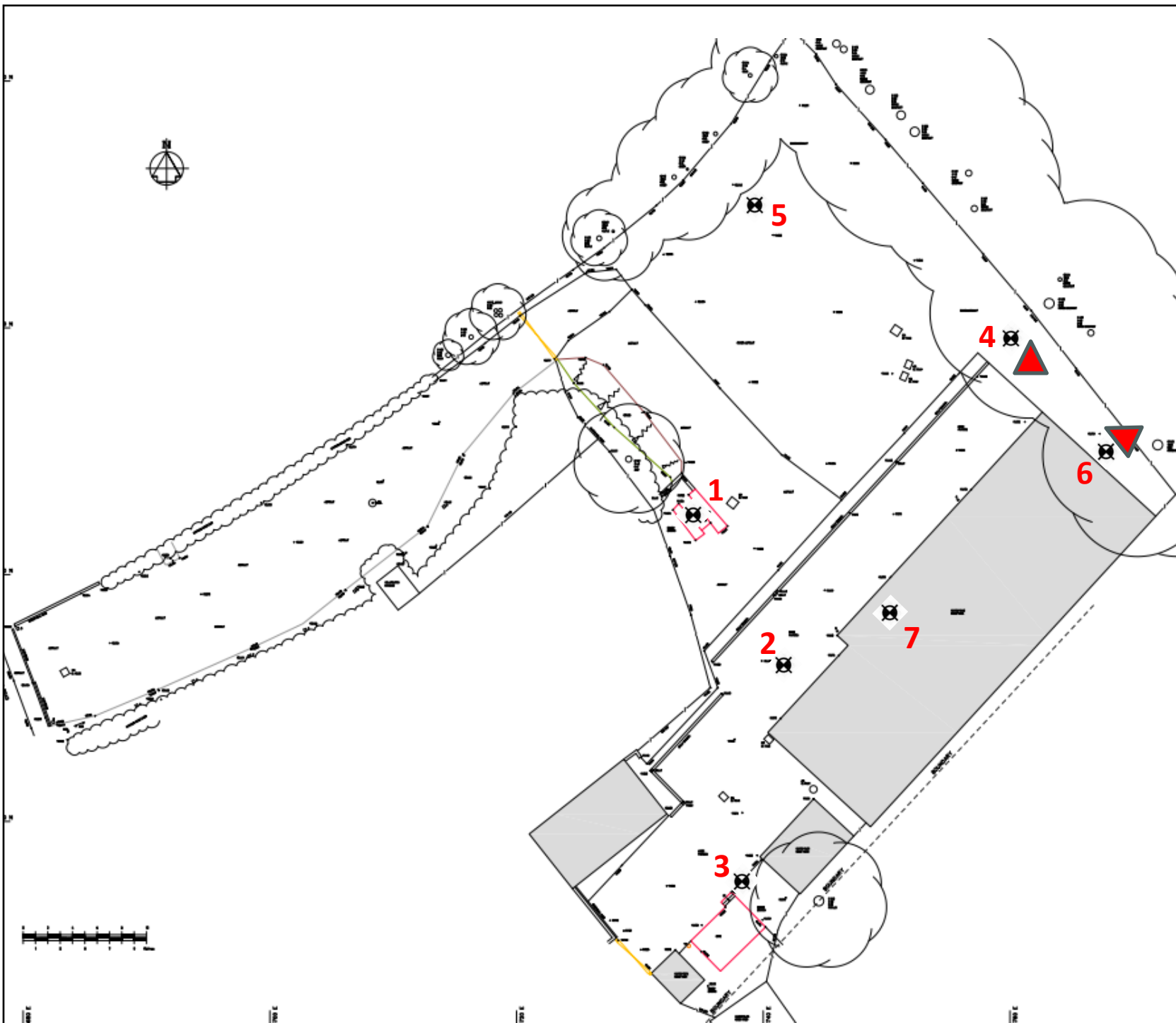
- British Standards (2016). Methods of test for soils for civil engineering purposes, BS 1377-1:2016. *British Standard Institution, London.*
- British Standards (2011). Investigation of potentially contaminated sites. Code of Practice. BS 10175+A2:2017. *British Standard Institution, London.*
- British Standards (2013). Guidance on investigations for ground gas. Permanent gases and Volatile Organic Compounds (VOCs). BS 8576. *British Standard Institution, London.*
- British Standards (2015). Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings. BS 8485+A1:2019. *British Standard Institution, London.*
- British Standards (2015). Code of practice for ground investigations, BS 5930:2015. *British Standard Institution, London.*
- Building Research Establishment [BRE] (2004). *Cover systems for land regeneration: Thickness of cover systems for contaminated land (BR 465).* BRE Watford, UK.
- Building Research Establishment [BRE] (2005). *Concrete in aggressive ground: Special Digest 1* (3rd Ed.). BRE Watford, UK.
- Building Research Establishment [BRE] (2015). *Guidance on protective measures for new buildings. (BR 212).* BRE Watford, UK.
- Contaminated land: Applications in Real Environments. (2013). *SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Final Project Report.*
- Chartered Institute of Environmental Health and Contaminated Land: Applications in Real Environments (2008). *The Guidance on Comparing Soil Contamination Data with Critical Concentration.* London, UK.
- Environment Agency (2004). *Model Procedures for the Management of Contaminated Land.* Contaminated Land Report (CLR) 11, SC02000028, Environment Agency, Bristol, UK.
- Environment Agency (2015). Interpretation of the definition and classification of hazardous waste. 1st edition. Technical Guidance WM3. *Environment Agency, UK.*
- Nathanail, C.P., McCaffrey, C., Gillett, A.G., Ogden, R.C. and Nathanail, J.F. (2015). *The LQM/CIEH S4ULs for Human Health Risk Assessment.* Land Quality Press, Nottingham. Publication Number S4UL3073.
- Stroud, M. A. (1974). The standard penetration test in insensitive clays and soft rocks. *Proceedings of the European Symposium on Penetration Testing, Stockholm, 2, 367-375.*

LIST OF ABBREVIATIONS

AOD	-	Above Ordnance Datum
ACM	-	Asbestos-containing Material
AST	-	Above-ground Storage Tank
BGS	-	British Geological Survey
BH	-	Borehole
BRE	-	Building Research Establishment
BSI	-	British Standards Institution
BS	-	British Standard
C4SL	-	Category Four Screening Level
CIRIA	-	Construction Industry Research and Information Association
CP	-	Cable Percussive
DPH	-	Dynamic Probing Heavy
DPSH	-	Dynamic Probing Super Heavy
EA	-	Environment Agency
GAC	-	Generic Assessment Criteria
LL	-	Liquid Limit
mAOD	-	Metres Above Ordnance Datum
mBGL	-	Metres Below Ground Level
mOD	-	Metres Ordnance Datum
OS	-	Ordnance Survey
PAH	-	Polycyclic Aromatic Hydrocarbons
PCB	-	Polychlorinated Biphenyl
PID	-	Photo Ionisation Detector
PL	-	Plastic Limit
PSD	-	Particle Size Distribution
SGV	-	Soil Guideline Value
SOM	-	Soil Organic Matter
SPT	-	Standard Penetration Test
SPZ	-	Source Protection Zone
SVOC	-	Semi-volatile Organic Compounds
TPH	-	Total Petroleum Hydrocarbon
UST	-	Underground Storage Tank
UXB	-	Unexploded Bombs
UXO	-	Unexploded Ordnance
VOC	-	Volatile Organic Compound

FIGURE 1

SITE PLAN



Legend:



Above ground tanks



Borehole location

Title:	Site Plan
Dwg No:	24/12836/A/1
Drawn by:	GO
Client:	J W Stratton Ltd
Contract:	Turners Hill Road, Crawley Down
Job Ref:	24/12836/A/GO
Scale:	NTS
Revision:	0
Issue Date:	08/05/2024

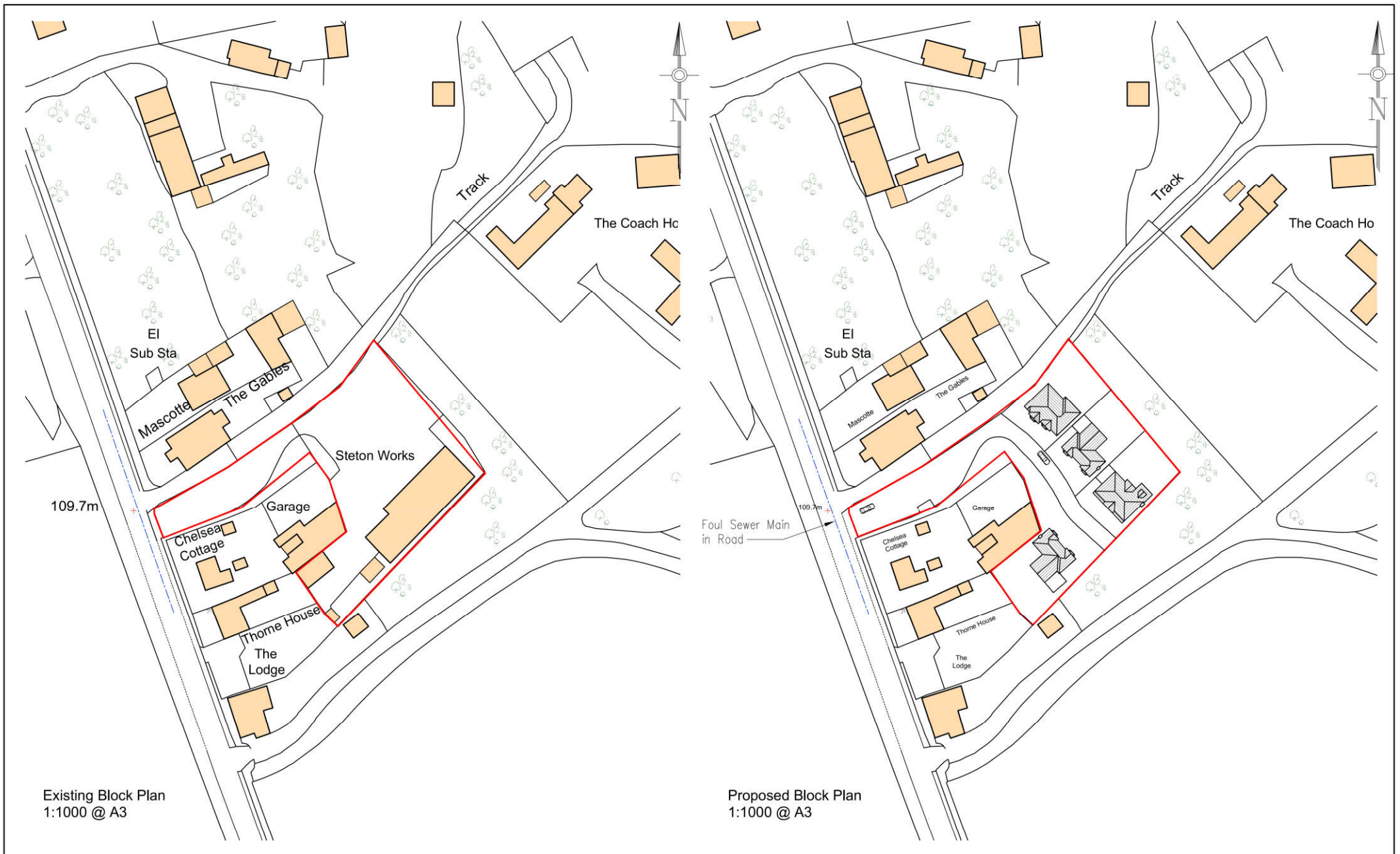


ALBURY S.I. LTD

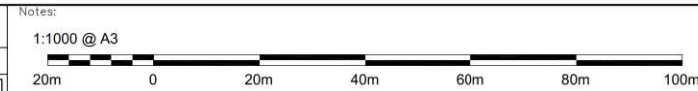
Miltons Yard, Petworth Road,
Witley, Surrey GU8 5LH
www.alburysi.co.uk

FIGURE 2

PROPOSED LAYOUT



Project: Redevelopment of Steton Works Turners Hill Rd Crawley Down		Client:	
Date:	Revision:	Scale: 1:1000 @ A3	Date: 9/3/22
Drawing Title: Existing Block Plan Proposed Block Plan			
Drawing No: CSW: 348/101	Rev:		



© Copyright:

Pipbrook Mill
London Road
Dorking
RH4 1JE
Telephone
01306 887568
E-Mail: info@redwoodland.co

Redwood Land Investments Ltd

APPENDIX 1

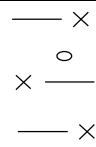
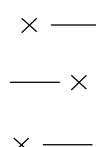
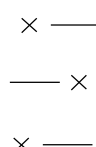
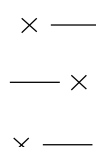
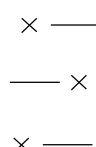
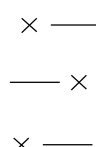
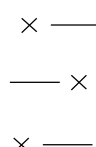
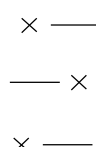
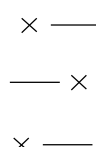
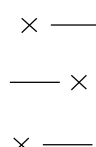
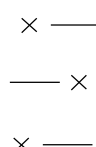
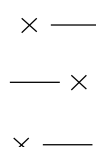
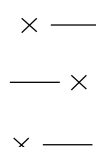
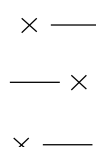
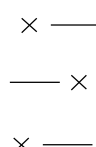
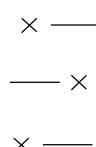
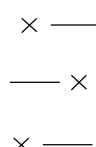
EXPLORATORY RECORDS

 ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH					BOREHOLE		1			
Contract		Turners Hill Road, Crawley Down					Report Ref		24/12836/A/GO	
Client		J W Stratton Ltd					Date		02/04/2024	
Site Address		Palmers Autocentre Tyres, Turners Hill Road, Crawley Down, West Sussex RH10 4HQ					Ground Level		111.7mOD	
Type of excavator		Window Sampler			Water level after completion, m			dry		
Water strikes, m		Dimensions, m			Ease of excavation, m					
1 none		Diameter 0.06			Very easy			Difficult GL-2.20		
2					Moderate			Very hard 2.20-2.60		
Remarks										
Samples or tests		Shear Strength kPa	PID TVOC ppm	Depth m		Legend	Strata Description			
Type	Depth, m									
D	0.10		0	0.05			MADE GROUND (asphalt)			
D	0.30		0.1				MADE GROUND (dark brown silty SAND and GRAVEL of stones and occasional flints)			
D	0.50		0.3	0.40			MADE GROUND (dark brown slightly gravelly sandy CLAY. Gravel is of flint)			
				0.70			Very stiff orangish brown and light grey very silty CLAY with interbedded buff fine very silty sand and brownish grey very sandy (fine) SILT with black veining at 2.00m and 2.50m			
D	1.00	180	0.1							
										
D	1.50	220	0							
										
										
D	2.00		0							
										
										
D	2.50		0							
				2.60			END OF BOREHOLE			

 ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH					BOREHOLE		2	
Contract		Turners Hill Road, Crawley Down					Report Ref	24/12836/A/GO
Client		J W Stratton Ltd					Date	02/04/2024
Site Address		Palmers Autocentre Tyres, Turners Hill Road, Crawley Down, West Sussex RH10 4HQ					Ground Level	111.49mOD
Type of excavator		Window Sampler		Water level after completion, m		dry		
Water strikes, m		Dimensions, m		Ease of excavation, m				
1	none	Diameter	0.06	Very easy		Difficult	GL-2.00	
2				Moderate		Very hard	2.00-2.10	
Remarks Falling head soakage test attempted. Test hole filled to 0.57m below ground level and no dissipation observed after 60 minutes								
Samples or tests		Shear Strength kPa	PID TVOC ppm	Depth m		Legend	Strata Description	
Type	Depth, m							
D	0.40	100	0.1	0.35			Block paving over MADE GROUND (brown sand over reddish brown sandy GRAVEL of stone)	
							Stiff to very stiff light grey and orangish brown very silty CLAY	
D	0.75		0.2					
D	1.00	200	0.2					
								
D	1.50		0.3					
				1.70				
							Buff and grey very sandy SILT with rare fine siltstone fragments	
D	2.00		0.1					
				2.10				
							END OF BOREHOLE - NO PENETRATION	

 ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH					BOREHOLE		3			
Contract		Turners Hill Road, Crawley Down					Report Ref		24/12836/A/GO	
Client		J W Stratton Ltd					Date		02/04/2024	
Site Address		Palmers Autocentre Tyres, Turners Hill Road, Crawley Down, West Sussex RH10 4HQ					Ground Level		111.5mOD	
Type of excavator		Window Sampler			Water level after completion, m			1.55		
Water strikes, m		Dimensions, m			Ease of excavation, m					
1 1.55		Diameter 0.06			Very easy			Difficult 0.50-1.30		
2					Moderate GL-0.50			Very hard 1.30-1.60		
Remarks Standpipe installed to 1.60m upon completion										
Samples or tests		Shear Strength kPa	PID TVOC ppm	Depth m		Legend	Strata Description			
Type	Depth, m									
D	0.10	>250	0.3	0.20			MADE GROUND (crushed brown sandy GRAVEL of stone over brown slightly gravelly flint clayey SAND with occasional roots) Orangish brown and grey very silty CLAY with occasional roots			
D	0.30		0.1							
D	0.50		0.2	0.70			Brown friable slightly gravelly sandy SILT with occasional roots. Gravel is of weak siltstone fragments			
D	1.00		0.4							
D	1.30		0.4	1.25				Orangish brown and grey very silty fine SAND with occasional clayey partings, interbedded very silty clay (1.50m) becoming very sandy SILT below 1.65m		
D	1.50		0.5							
D	1.65		0.3	1.70						
								END OF BOREHOLE - NO PENETRATION		

 ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH					BOREHOLE		4									
Contract		Turners Hill Road, Crawley Down					Report Ref		24/12836/A/GO							
Client		J W Stratton Ltd					Date		02/04/2024							
Site Address		Palmers Autocentre Tyres, Turners Hill Road, Crawley Down, West Sussex RH10 4HQ					Ground Level		111.4mOD							
Type of excavator		Window Sampler			Water level after completion, m			dry								
Water strikes, m		Dimensions, m			Ease of excavation, m											
1 none		Diameter 0.06			Very easy			Difficult		GL-0.65						
2					Moderate			Very hard		0.65-3.10						
Remarks																
Samples or tests		Shear Strength kPa	PID TVOC ppm	Depth m		Legend	Strata Description									
Type	Depth, m															
D	0.10	180	0				MADE GROUND (brown silty SAND and GRAVEL of stones and occasional brick fragments, with occasional pockets of sandy clay and roots)									
D	0.30		0	0.40												
D	0.50		0.3	0.50								MADE GROUND (concrete)				
D	0.75		0.2	0.65												
D	1.00		0.1	0.90								Orangish brown and light grey friable sandy SILT				
D	1.50	>250	0			Very stiff orangish brown and light grey very silty CLAY with pockets of silt, rare roots (1.00m and 1.50m) and some black mottling at depth (2.00m)										
D	2.00	>250	0	2.10								Brown slightly gravelly very silty CLAY, dark brown and yellowish brown mottling. Gravel is of siltstone .				
D	2.50			2.70			Orangish brown sandy SILT with pockets of very silty clay									
D	3.00			3.10								END OF BOREHOLE				

 ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH					BOREHOLE		5				
Contract		Turners Hill Road, Crawley Down					Report Ref		24/12836/A/GO		
Client		J W Stratton Ltd					Date		02/04/2024		
Site Address		Palmers Autocentre Tyres, Turners Hill Road, Crawley Down, West Sussex RH10 4HQ					Ground Level		111.0mOD		
Type of excavator		Window Sampler			Water level after completion, m			dry			
Water strikes, m		Dimensions, m			Ease of excavation, m						
1 none		Diameter 0.06			Very easy			Difficult		0.70-2.00	
2					Moderate			Very hard		GL-0.70, 2.00-2.60	
Remarks Standpipe installed to 2.50m upon completion											
Samples or tests		Shear Strength kPa	PID TVOC ppm	Depth m		Legend	Strata Description				
Type	Depth, m										
D	0.10	200	0.1	0.40 0.50 0.70			MADE GROUND (asphalt over dark reddish brown sandy GRAVEL of stone)				
D	0.30		0.1								
D	0.60		0.4								
D	1.00		0.1								
D	1.50	>250	0.1				MADE GROUND (concrete)				
D	2.00										0.2
D	2.50										0.2
D	2.60										0.2
							MADE GROUND (dark brown very silty CLAY)				
											
											
											
							Very stiff orangish brown and light grey very silty CLAY with black veining at depth and rare coarse siltstone fragments				
											
											
											
							~interbedded buff fine SAND/SILT below 2.00m				
											
											
											
							END OF BOREHOLE				
											
											
											

 ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH		BOREHOLE		6			
Contract		Turners Hill Road, Crawley Down			Report Ref	24/12836/GO	
Client		J W Stratton Ltd			Date	02/04/2024	
Site Address		Palmers Autocentre Tyres, Turners Hill Road, Crawley Down, West Sussex RH10 4HQ			Ground Level	111.7mOD	
Type of excavator		Window Sampler		Water level after completion, m		2.70	
Water strikes, m		Dimensions, m		Ease of excavation, m			
1 2.70		Diameter 0.06		Very easy		Difficult GL-0.80	
2				Moderate 0.80-2.40		Very hard 2.40-2.70	
Remarks Standpipe installed to 2.70m upon completion							
Samples or tests		Shear Strength kPa	PID TVOC ppm	Depth m		Legend	Strata Description
Type	Depth, m						
D	0.10	100	0				Leafmould over MADE GROUND (dark brown silty SAND and GRAVEL of stone cobbles, brick and metal fragments)
D	0.30		0	0.25			MADE GROUND (brown and grey slightly gravelly sandy CLAY. Gravel is of flint and brick fragments)
D	0.50		0.2				
			0.2	0.80			Stiff bluish grey and yellowish brown fine sandy CLAY with occasional roots and root hairs
D	1.00	>250	1.2				
				1.40			Very stiff orangish brown and light grey friable very silty CLAY with occasional siltstone fragments at depth
D	1.50		5.1				
							
D	2.00		1.8				
							Light grey fine sandy SILT
				2.40			
D	2.50		5.4				
				2.70			
							END OF BOREHOLE

 ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH		BOREHOLE		7			
Contract		Turners Hill Road, Crawley Down		Report Ref		24/12836/A/GO	
Client		J W Stratton Ltd		Date		02/04/2024	
Site Address		Palmers Autocentre Tyres, Turners Hill Road, Crawley Down, West Sussex RH10 4HQ		Ground Level			
Type of excavator		Window Sampler		Water level after completion, m		1.55	
Water strikes, m		Dimensions, m		Ease of excavation, m			
1 1.55		Diameter 0.06		Very easy		Difficult GL-1.60	
2				Moderate		Very hard	
Remarks Internal position							
Samples or tests		Shear Strength kPa	PID TVOC ppm	Depth m	<		

APPENDIX 2

CALIBRATION CERTIFICATES



CUSTOMER: Albury S.I. Limited

```
FIRMWARE:          9.04
UPGRADED TO:       1.0.06
```

TESTS	Pre Service	Post Service
Charger Test		OK
Battery charge Test		OK
Lamp Test		OK
Air Flow Test ≥ 220ml/min	262ml/min	240ml/min
Block Flow Test ≤ 15ml/min	4ml/min	4ml/min
Moisture Sensitivity = 0.0ppm		0 ppm
Switch Test		OK
Sensor Test		OK
Alarm Test		OK
PC Comms Test		OK
Datalog Test		N/A
Display Test		OK
Physical Inspection		OK
PAT Test		OK
Firmware Upgrade		OK
Software Upgrade (usb)		N/A
Function Test		OK
Run time		35:58

Calibrated and bump tested

DATE: 24/08/2023



Life-saving solutions

CERTIFICATE OF CALIBRATION

Phocheck Tiger

CALIBRATION CERTIFICATE NO: 77401

ISSUED BY: SHAWCITY LIMITED
DATE: 24/08/2023

APPROVED SIGNATORY: 

NAME: Brandon Reeves

CUSTOMER: Albury S.I. Limited
INSTRUMENT: PhoCheck Tiger
SERIAL NUMBER: T-107275

CALIBRATION METHOD: CM03
AMBIENT CONDITIONS: 20°C ± 2°C and 50% (± 20%) RH

Prior to calibration the instrument was allowed to stabilise in the laboratory for at least 30 minutes.
The instrument was calibrated by exposing the sensor to known values of gas concentrations.
All gases were sampled through the complete probe and in line filter, where applicable.
The reference value is that generated by the certified source and the indicated value is that measured by the instrument.

CALIBRATION RESULTS

GAS	LOT No	REF. VALUE	INDICATED VALUE
Isobutylene	WO409995-1	100 ppm	100 ppm
Isobutylene	WO380827-2	1000 ppm	1000 ppm

COMMENTS:

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$.
This provides a level of confidence of uncertainty of approximately 95%.
The uncertainty of measurement is $\pm 2\%$
The results indicate that the instrument conforms to the applicable parts of the published specification.

HEALTH & SAFETY, OCCUPATIONAL HYGIENE AND ENVIRONMENTAL MONITORING INSTRUMENTS

Tel: 01793 780622
www.shawcity.co.uk

Instrument House, 91-92 Shrivenham Hundred Business Park
Watchfield, Oxfordshire, SN6 8TY

TEST DATE AND CONDITIONS			
Date		07/09/2023	
Atmospheric Pressure		1000	mB
Ambient Temperature		22.4	°C
EnviroNics Serial No.		5089	

**GFM436 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit 4, Fairfield Court

Seven Stars Estate

Wheler Rd

Coventry

CV3 4LJ

Tel 02476303311



GAS DATA
LISTEN • ANALYSE • INFORM

Fax 02476307711

Customer	Albury S.I.
Certificate Number	124516
Order Number	335697

Serial Number	12733
Software Version	G436-00.0027/0010

Recalibration DUE Date
07/09/24

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	550	Accept > 200 cc/min	Pump Flow @ -200mB	300	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	60.1	60	40.2	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	5.0	5	5.1	5	6.0	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N2	0.0	0	0.0	0	0.0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Gas Type	Range (ppm)		Zero Reading		Instrument Gas Reading	
H2S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0%
CO	2000	1000	0	Accept ±0.0	1000	Accept ±5.0%
Hexane	2.0%	2.0%	0	Accept ±0.0	1.99	Accept ±10.0%

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	1500	1500		0		0			
CO	1000	90		1000		0			
Hexane	2.0%	0		0		1.99			

Pressure Checks			
Atmospheric Pressure [AP] (mB)			
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)	
AP Open Ports		999	Accept ± 2.0
AP Port (Internal)	+800 mB	800	Accept ± 5.0
	+1200mb	1200	Accept ± 5.0

Flow Checks					
Borehole Flow			Differential Pressure		
Applied Reading (l/h)	Instrument Reading (l/h)		Applied Pressure (Pa)	Instrument Reading (Pa)	
-30	-29.4	Accept ± 3.0	-408	-398	Accept ± 50
-3	-3.0	Accept ± 1.0	-17	-18	Accept ± 6.0
0	0.0	Accept ± 0.0	0	0	Accept ± 0.5
3	3.0	Accept ± 0.5	14	14	Accept ± 3.0
30	30.0	Accept ± 3.0	321	322	Accept ± 50
60	59.5	Accept ± 6.0	970	964	Accept ± 130
90	90.3	Accept ± 9.0	1904	1944	Accept ± 250

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading $^{\circ}\text{C}$	
Applied Temperature $^{\circ}\text{C}$		
-10	-10.0	Accept ± 2.0
0	0.0	Accept ± 1.0
30	30.0	Accept ± 1.0
60	60.0	Accept ± 1.0
100	100.0	Accept ± 1.0

Technician:
<i>Jack Rutland</i>

Date Tested:
<i>07/09/2023</i>

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.

Gas Data Ltd is certified to BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018.

APPENDIX 3

LABORATORY TEST RESULTS

INDEX PROPERTIES AND WATER CONTENTS

BS 1377 : Part 2 : 1990

Report Ref	24/12836/A/GO	Contract	Turners Hill Road, Crawley Down
-------------------	---------------	-----------------	---------------------------------

BH No.	Sample		Water Content W %	Liquid Limit W _L %	Plastic Limit W _P %	Plasticity Index IP %	% Passing 425 Micron Sieve	Corrected Plasticity Index IP _c %	Soil Classification	Remarks
	Depth m	Description								
1	1.00	Orangish brown and light grey very silty CLAY	22.0	53	26	27	100	27	CH	
2	1.50	Light grey and orangish brown very silty CLAY	21.8	56	25	31	100	31	CH	
3	1.00	Orangish brown and light grey very silty CLAY	17.8	47	22	25	100	25	CI	
	1.50	Orangish brown and light grey very silty CLAY	16.5	31	18	13	100	13	CL	
4	1.50	Orangish brown and light grey very silty CLAY	18.9	42	23	19	100	19	CI	
	2.00	Orangish brown and light grey very silty CLAY with some black mottling	16.2							
	2.50	Brown slightly gravelly very silty CLAY. Gravel is of siltstone fragments	18.3	40	22	18	68	12	CI	
5	1.00	Orangish brown and light grey very silty CLAY	21.6							
	1.50	Orangish brown and light grey very silty CLAY	21.2	46	25	21	100	21	CI	
	2.00	Orangish brown and light grey very silty CLAY with interbedded buff fine sand/silt	17.2							
	2.50	Orangish brown and light grey very silty CLAY with interbedded buff fine sand/silt	16.5							
KEY: Soil Type: C - Clay M - Silt O - Organic NP - Non Plastic Plasticity: L - Low I - Intermediate H - High V - Very High E - Extremely High										



ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH

INDEX PROPERTIES AND WATER CONTENTS

BS 1377 : Part 2 : 1990

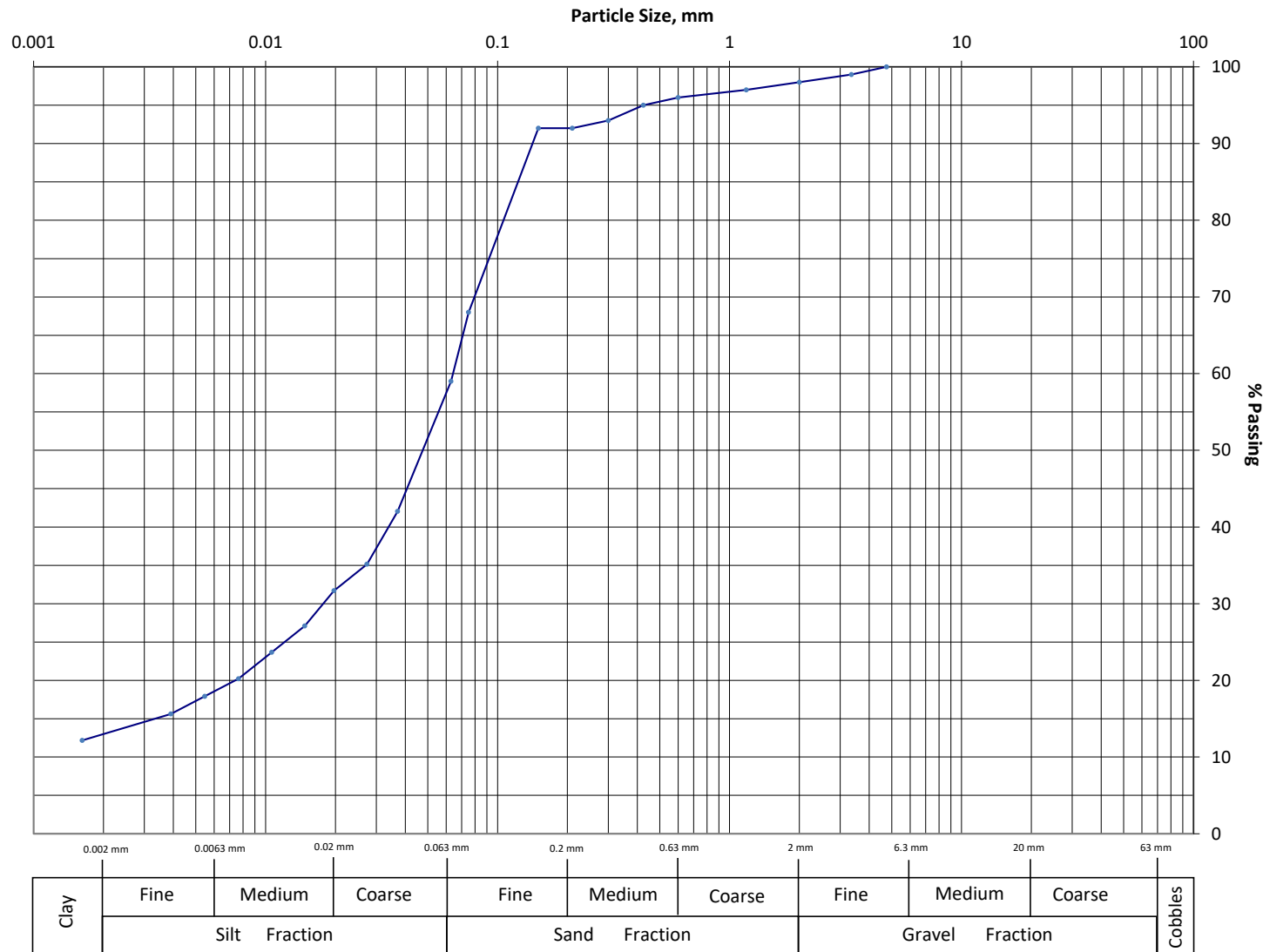
Report Ref	24/12836/A/GO	Contract	Turners Hill Road, Crawley Down	<i>Continuation Sheet</i>	1
-------------------	---------------	-----------------	---------------------------------	---------------------------	----------

[illegible]

ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH

PARTICLE SIZE DISTRIBUTION TEST

BS 1377 : Part 2 : Clauses 9.2 and 9.5 : 1990 Particle Size Distribution by Wet Sieving & Sedimentation by Hydrometer Method



Sieve Aperture/ Particle Size (mm)	Percentage Passing
75	
63	
50	
37.5	
25	
20	
13	
9.5	
6.3	
4.75	100
3.35	99
2	98
1.18	97
0.6	96
0.425	95
0.3	93
0.21	92
0.15	92
0.075	68
0.063	59
0.037	42
0.027	35
0.020	32
0.015	27
0.011	24
0.0076	20
0.0055	18
0.0039	16
0.0016	12

Sample Proportions (%)	
Cobbles	0
Gravel	2
Sand	39
Silt & Clay	59

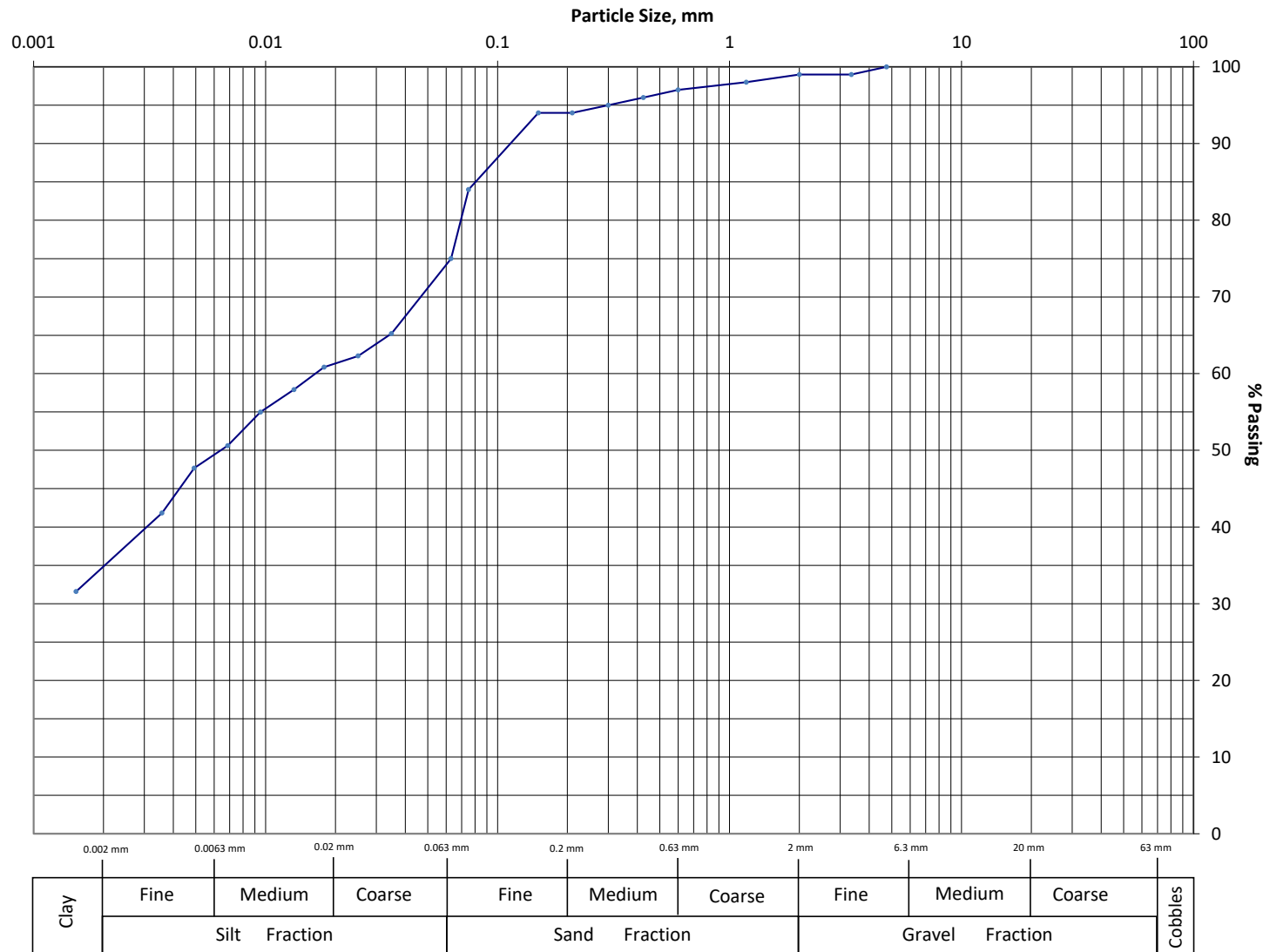
BH No.	2	Depth, m	2.00	Report Ref	24/12836/A/GO
Visual Description	Buff and grey very sandy SILT with rare fine siltstone fragments			Contract	Turners Hill Road, Crawley Down



ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH

PARTICLE SIZE DISTRIBUTION TEST

BS 1377 : Part 2 : Clauses 9.2 and 9.5 : 1990 Particle Size Distribution by Wet Sieving & Sedimentation by Hydrometer Method



Sieve Aperture/ Particle Size (mm)	Percentage Passing
75	
63	
50	
37.5	
25	
20	
13	
9.5	
6.3	
4.75	100
3.35	99
2	99
1.18	98
0.6	97
0.425	96
0.3	95
0.21	94
0.15	94
0.075	84
0.063	75
0.035	65
0.025	62
0.018	61
0.013	58
0.010	55
0.0069	51
0.0049	48
0.0036	42
0.0015	32

Sample Proportions (%)	
Cobbles	0
Gravel	1
Sand	24
Silt & Clay	75

BH No.	4	Depth, m	3.00	Report Ref	24/12836/A/GO
Visual Description	Orangish brown sandy SILT with pockets of very silty clay			Contract	Turners Hill Road, Crawley Down



ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH

SUMMARY OF CHEMICAL ANALYSES

Determination of Soluble Sulphate Contents of Soil and Groundwater, Organic Matter Content and pH Value

Report Ref	24/12836/A/GO	Contract	Turners Hill Road, Crawley Down
-------------------	---------------	-----------------	---------------------------------

BH/TP No.	Sample			Concentration of Sulphates expressed as SO ₄		pH Value	Organic Content %
	Depth m	Soil Type	% passing 2mm sieve	2:1 Water:Soil Extract mg/l	Groundwater mg/l		
2	1.00	CLAY	100	<250		6.7	
4	1.00	CLAY	100	<250		4.7	
	2.00	CLAY	100	<250		5.2	
5	1.00	CLAY	100	<250		5.4	
7	1.00	CLAY	100	<250		5.4	



ALBURY S.I. LTD Miltons Yard, Petworth Road, Witley, Surrey GU8 5LH

Albury SI Ltd
Miltons Yard
Petworth Road
Witley
Surrey
GU8 5LH

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

e: george.owens@alburysl.co.uk

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

Analytical Report Number : 24-012101

Project / Site name:	Turners Hill Road, Crawley Down	Samples received on:	03/04/2024
Your job number:	24-12836-GO	Samples instructed on/ Analysis started on:	03/04/2024
Your order number:	15173	Analysis completed by:	09/04/2024
Report Issue Number:	1	Report issued on:	11/04/2024
Samples Analysed:	10 soil samples		

Signed: 

Joanna Szwagrak
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 24-012101
Project / Site name: Turners Hill Road, Crawley Down
Your Order No: 15173

Lab Sample Number	160778	160779	160780	160781	160782
Sample Reference	1	2	3	4	5
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	0.40	0.10	0.50	0.60
Date Sampled	02/04/2024	02/04/2024	02/04/2024	02/04/2024	02/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	18	13	7.2	20
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.7	0.5	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	WEM	WEM	WEM	WEM	SSZ

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.5	8	8.2	10.6	7.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	440	360	520	1600	330
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	290	170	27	350	140
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	144	85.9	13.7	177	71
Sulphide	mg/kg	1	MCERTS	27	2.9	4.4	40	15
Elemental Sulphur	mg/kg	5	MCERTS	140	17	< 5.0	< 5.0	56
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.3	0.4	1.3	6.7	1.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.1	< 1.0
----------------------------	-------	---	--------	-------	-------	-------	-----	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.06	0.06	0.24	69	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.05	14	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.05	0.09	0.44	190	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.07	0.11	0.37	170	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.42	0.72	2.9	1200 \$	0.28
Anthracene	mg/kg	0.05	MCERTS	0.07	0.17	0.75	370	0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.61	0.94	4.2	1500 \$	0.62
Pyrene	mg/kg	0.05	MCERTS	0.58	0.87	3.8	1400 \$	0.58
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.27	0.39	1.8	640	0.32
Chrysene	mg/kg	0.05	MCERTS	0.29	0.37	1.7	530	0.34
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.38	0.52	2.2	560	0.45
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.19	0.17	0.92	190	0.15
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.3	0.41	2	450	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.17	0.25	1	270	0.17
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.25	69	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.26	0.29	1.3	310	0.25

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.72	5.36	24	7860 \$	3.56
-----------------------------	-------	-----	-----------	------	------	----	---------	------

Analytical Report Number: 24-012101

Project / Site name: Turners Hill Road, Crawley Down

Your Order No: 15173

Lab Sample Number	160778	160779	160780	160781	160782
Sample Reference	1	2	3	4	5
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	0.40	0.10	0.50	0.60
Date Sampled	02/04/2024	02/04/2024	02/04/2024	02/04/2024	02/04/2024
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	10	20	13	8.2
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.63	0.65	0.65	0.91	0.52
Boron (water soluble)	mg/kg	0.2	MCERTS	1.5	0.9	0.9	0.8	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.6	1
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	43	49	40	150	23
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	43	49	40	150	23
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	16	19	56	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	200	22	610	110	130
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	1600	820	730	360	840
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.7	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	10	10	10	15	8.9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.4	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	24	38	24	28	22
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	60	37	100	130	200

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	10	< 1.0
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	89	< 2.0
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	160	< 8.0
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	13	< 8.0	< 8.0	460	< 8.0
TPHCWG - Aliphatic >C21 - C40 EH_CU_1D_AL	mg/kg	10	NONE	15	< 10	< 10	580	< 10
TPHCWG - Aliphatic >C35 - C44 EH_CU_1D_AL	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	200	< 8.4
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	13	< 10	< 10	720	< 10
TPHCWG - Aliphatic >C5 - C44 EH_CU+HS_1D_AL	mg/kg	10	NONE	13	< 10	< 10	920	< 10

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	1.3	35	2.1
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	5.8	1800	5.8
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	25	8100 \$\$	< 10
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	39	16000 \$\$	< 10
TPHCWG - Aromatic >EC21 - EC40 EH_CU_1D_AR	mg/kg	10	NONE	< 10	< 10	44	16000	< 10
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	850	< 8.4
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	71	26000 \$\$	< 10
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	71	26000 \$\$	< 10

TPH Total >C6 - C40 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	31	13	77	27000 \$\$	25
---------------------------------------	-------	----	------	----	----	----	------------	----

Petroleum Range Organics (C6 - C10) HS_1D_TOTAL	mg/kg	1	NONE	< 1.0	< 1.0	< 1.0	1.6	< 1.0
TPH (C10 - C40) EH_CU_1D_TOTAL	mg/kg	10	MCERTS	31	13	77	27000 \$\$	25

Analytical Report Number: 24-012101

Project / Site name: Turners Hill Road, Crawley Down

Your Order No: 15173

Lab Sample Number				160778	160779	160780	160781	160782
Sample Reference				1	2	3	4	5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.40	0.10	0.50	0.60
Date Sampled				02/04/2024	02/04/2024	02/04/2024	02/04/2024	02/04/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromomethane	µg/kg	5	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	NONE	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
2,2-Dichloropropane	µg/kg	5	NONE	-	-	-	-	-
Chloroform	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	-	-	-	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	-	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	5	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	-	-	-	-	-
Bromoform	µg/kg	5	NONE	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromobenzene	µg/kg	5	NONE	-	-	-	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-

Analytical Report Number: 24-012101

Project / Site name: Turners Hill Road, Crawley Down

Your Order No: 15173

Lab Sample Number				160778	160779	160780	160781	160782
Sample Reference				1	2	3	4	5
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	0.40	0.10	0.50	0.60
Date Sampled				02/04/2024	02/04/2024	02/04/2024	02/04/2024	02/04/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Butylbenzene	µg/kg	5	NONE	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-

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

Analytical Report Number: 24-012101
Project / Site name: Turners Hill Road, Crawley Down
Your Order No: 15173

Lab Sample Number				160783	160784	160785	160786	160787
Sample Reference				6	6	6	6	7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.50	2.50	0.20
Date Sampled				02/04/2024	02/04/2024	02/04/2024	02/04/2024	02/04/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	45.8
Moisture Content	%	0.01	NONE	18	20	15	9	8.4
Total mass of sample received	kg	0.1	NONE	0.5	0.3	0.3	0.3	0.3

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SSZ	-	-	-	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.6	7.6	7	7.8	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	280	-	-	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	60	27	33	34	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.0133	0.0164	0.0169	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	29.8	13.3	16.4	16.9	-
Sulphide	mg/kg	1	MCERTS	< 1.0	-	-	-	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.1	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	-	-	-
----------------------------	-------	---	--------	-------	---	---	---	---

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.06	0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.1	0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.06	< 0.05	< 0.05	0.11	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.85	0.36	< 0.05	0.24	0.57
Anthracene	mg/kg	0.05	MCERTS	0.21	0.08	< 0.05	< 0.05	0.15
Fluoranthene	mg/kg	0.05	MCERTS	2	0.74	< 0.05	< 0.05	1.6
Pyrene	mg/kg	0.05	MCERTS	1.9	0.69	< 0.05	< 0.05	1.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.1	< 0.05	< 0.05	< 0.05	0.77
Chrysene	mg/kg	0.05	MCERTS	0.97	0.45	< 0.05	< 0.05	0.79
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.3	0.69	< 0.05	< 0.05	1.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.52	0.28	< 0.05	< 0.05	0.48
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.1	0.64	< 0.05	< 0.05	0.93
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.53	0.4	< 0.05	< 0.05	0.6
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.15	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.71	0.46	< 0.05	< 0.05	0.7

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	11.4	5.05	< 0.80	< 0.80	9.28
-----------------------------	-------	-----	-----------	------	------	--------	--------	------

Analytical Report Number: 24-012101

Project / Site name: Turners Hill Road, Crawley Down

Your Order No: 15173

Lab Sample Number				160783	160784	160785	160786	160787
Sample Reference				6	6	6	6	7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.50	2.50	0.20
Date Sampled				02/04/2024	02/04/2024	02/04/2024	02/04/2024	02/04/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.66	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Chromium (hexavalent) Low Level	mg/kg	1.2	NONE	< 1.2	-	-	-	-
Chromium (III)	mg/kg	1	NONE	45	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	45	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	38	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	300	-	-	-	-
Manganese (aqua regia extractable)	mg/kg	1	MCERTS	500	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	28	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	160	-	-	-	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >C5 - C6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	-	-	-	-
TPHCWG - Aliphatic >C6 - C8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	-	-	-	-
TPHCWG - Aliphatic >C8 - C10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	-	-	-	-
TPHCWG - Aliphatic >C10 - C12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	-	-	-	-
TPHCWG - Aliphatic >C12 - C16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	-	-	-	-
TPHCWG - Aliphatic >C16 - C21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	-	-	-	-
TPHCWG - Aliphatic >C21 - C35 EH_CU_1D_AL	mg/kg	8	MCERTS	16	-	-	-	-
TPHCWG - Aliphatic >C21 - C40 EH_CU_1D_AL	mg/kg	10	NONE	17	-	-	-	-
TPHCWG - Aliphatic >C35 - C44 EH_CU_1D_AL	mg/kg	8.4	NONE	< 8.4	-	-	-	-
TPHCWG - Aliphatic >C5 - C35 EH_CU+HS_1D_AL	mg/kg	10	NONE	16	-	-	-	-
TPHCWG - Aliphatic >C5 - C44 EH_CU+HS_1D_AL	mg/kg	10	NONE	16	-	-	-	-

TPHCWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	21	-	-	-	-
TPHCWG - Aromatic >EC21 - EC40 EH_CU_1D_AR	mg/kg	10	NONE	23	-	-	-	-
TPHCWG - Aromatic >EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	< 8.4	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 EH_CU+HS_1D_AR	mg/kg	10	NONE	21	-	-	-	-
TPHCWG - Aromatic >EC5 - EC44 EH_CU+HS_1D_AR	mg/kg	10	NONE	21	-	-	-	-

TPH Total >C6 - C40 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	51	-	-	-	-
---------------------------------------	-------	----	------	----	---	---	---	---

Petroleum Range Organics (C6 - C10) HS_1D_TOTAL	mg/kg	1	NONE	< 1.0	-	-	-	-
TPH (C10 - C40) EH_CU_1D_TOTAL	mg/kg	10	MCERTS	51	-	-	-	-

Analytical Report Number: 24-012101

Project / Site name: Turners Hill Road, Crawley Down

Your Order No: 15173

Lab Sample Number				160783	160784	160785	160786	160787
Sample Reference				6	6	6	6	7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.50	2.50	0.20
Date Sampled				02/04/2024	02/04/2024	02/04/2024	02/04/2024	02/04/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
Trans 1,2-dichloroethylene	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
2,2-Dichloropropane	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbontetrachloride	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	-	< 5.0 #	< 5.0 #	< 5.0 #	< 5.0 #
Dibromomethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
Bromobenzene	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0

Analytical Report Number: 24-012101

Project / Site name: Turners Hill Road, Crawley Down

Your Order No: 15173

Lab Sample Number				160783	160784	160785	160786	160787
Sample Reference				6	6	6	6	7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.50	1.50	2.50	0.20
Date Sampled				02/04/2024	02/04/2024	02/04/2024	02/04/2024	02/04/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Butylbenzene	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	-	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	< 5.0	< 5.0	< 5.0

SVOCs

Aniline	mg/kg	0.1	NONE	-	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	-	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	-	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	< 0.1	< 0.1	< 0.1	< 0.1
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	-	< 0.2	< 0.2	< 0.2	< 0.2
Azobenzene	mg/kg	0.3	NONE	-	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.30	< 0.30	< 0.30	< 0.30
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	-	< 0.2	< 0.2	< 0.2	19
Anthraquinone	mg/kg	0.3	NONE	-	< 0.3	< 0.3	< 0.3	< 0.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	< 0.3	< 0.3	< 0.3	4.4

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

Analytical Report Number : 24-012101
Project / Site name: Turners Hill Road, Crawley Down

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
160778	1	None Supplied	0.5	Brown clay with gravel
160779	2	None Supplied	0.4	Brown clay
160780	3	None Supplied	0.1	Brown clay and sand with gravel and vegetation
160781	4	None Supplied	0.5	Brown sand with gravel
160782	5	None Supplied	0.6	Brown clay and sand
160783	6	None Supplied	0.3	Brown clay and sand with gravel and vegetation
160784	6	None Supplied	0.5	Brown clay and sand with gravel and vegetation
160785	6	None Supplied	1.5	Brown clay and sand with vegetation
160786	6	None Supplied	2.5	Brown clay and sand
160787	7	None Supplied	0.2	Brown sand with gravel and stones

Analytical Report Number : 24-012101

Project / Site name: Turners Hill Road, Crawley Down

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method based on Secondsite Property Holdings Guidance for Assessing and Managing Potential	L021B	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated EPA-16 PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
TPH Chromatogram in soil	TPH Chromatogram in soil	In-house method	L064B	D	NONE
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088	D/W	MCERTS
Total petroleum hydrocarbons by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS	In-house method	L076B/L088	D/W	MCERTS
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080	W	NONE

Analytical Report Number : 24-012101

Project / Site name: Turners Hill Road, Crawley Down

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil (low level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

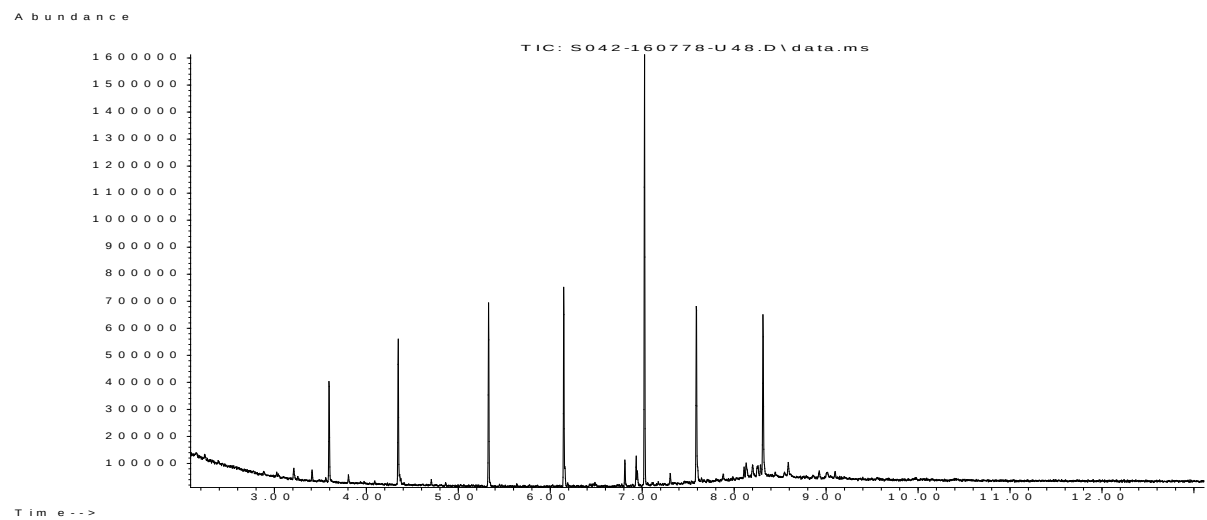
List of HWOL Acronyms and Operators

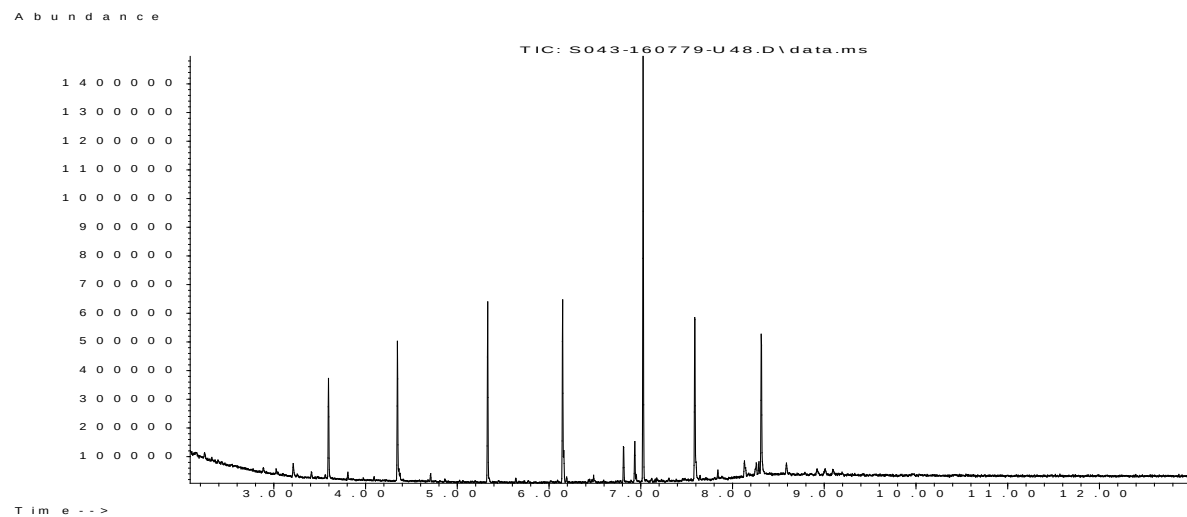
Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column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

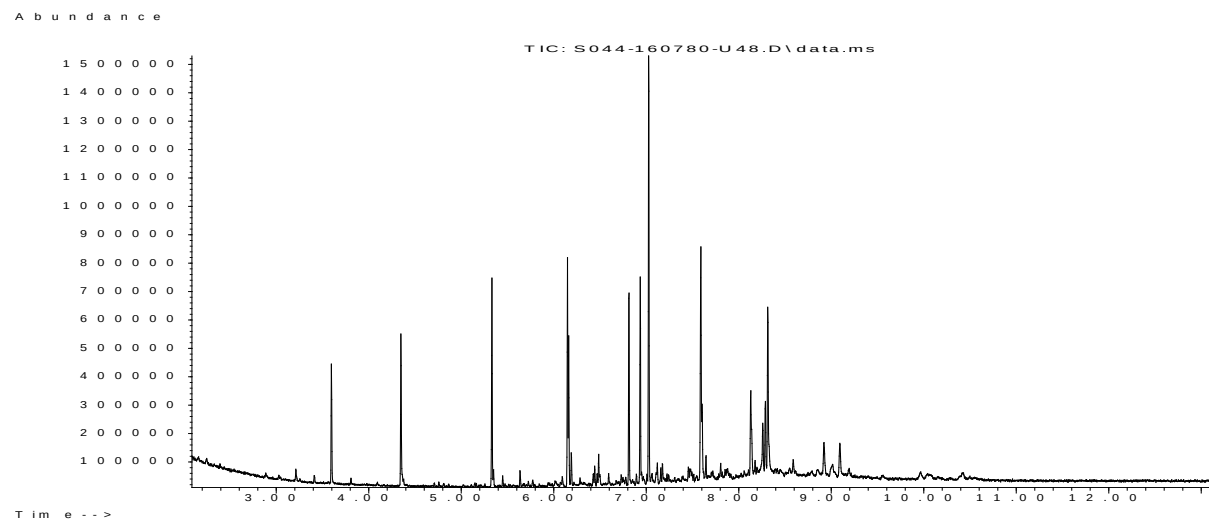
\$\$ - Result was reported from high dilution. The result should be interpreted with caution

- Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised

\$ - Data reported unaccredited due to result over calibration range despite high dilution, concentration determined by extrapolated calibration. The result should be interpreted with caution

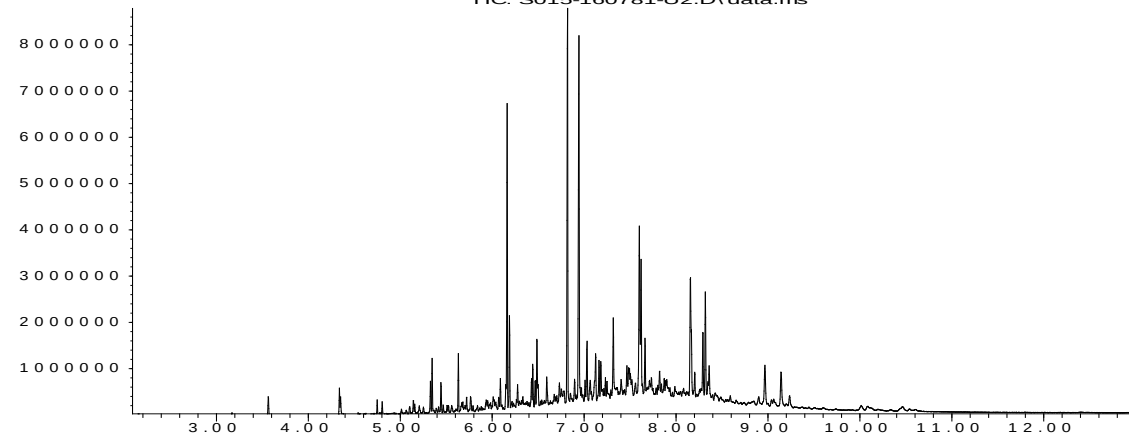




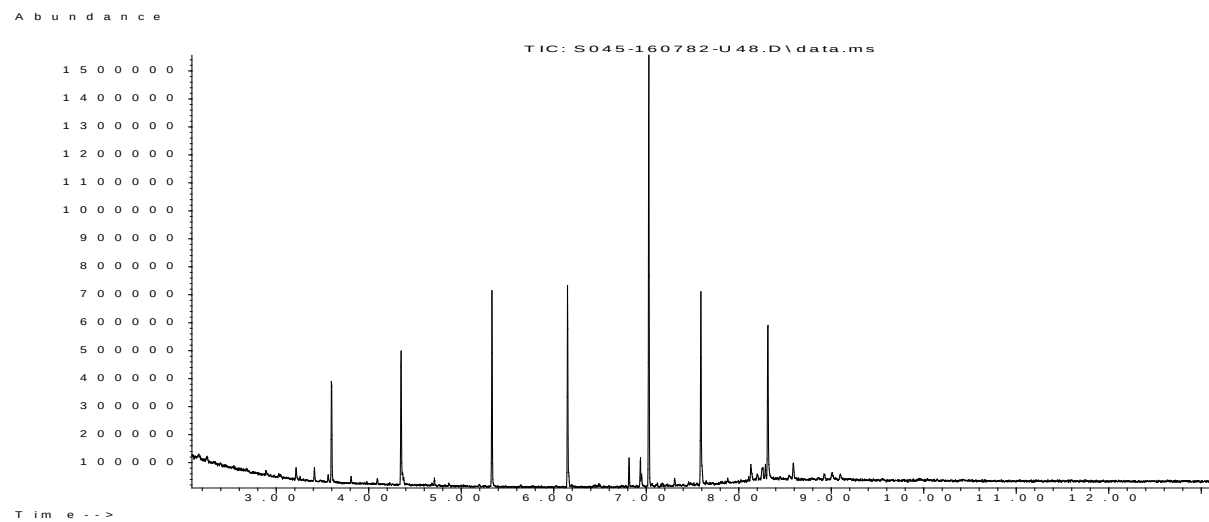


Abundance

TIC: S015-160781-U2.D\data.ms

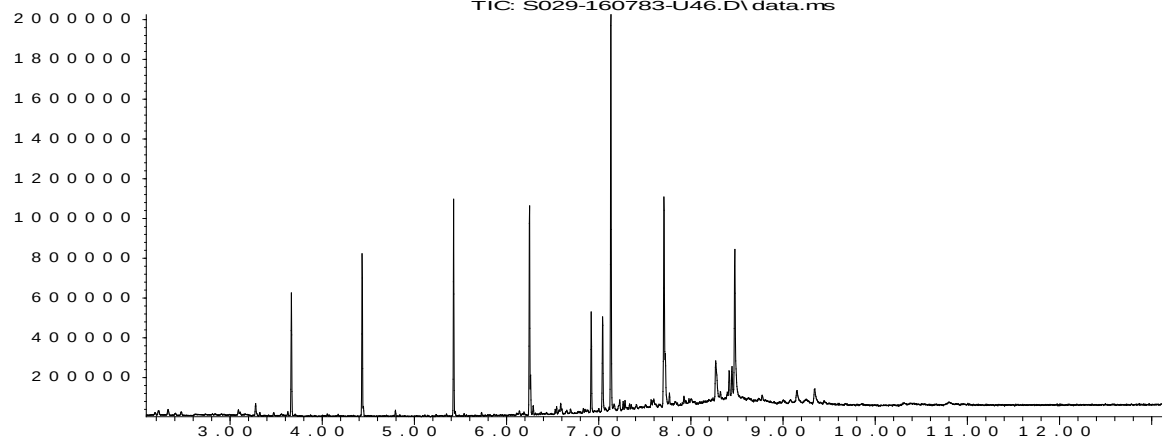


Time-->



Abundance

TIC: S029-160783-U46.D\data.ms



Time-->

Albury SI Ltd
Miltons Yard
Petworth Road
Witley
Surrey
GU8 5LH

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

e: george.owens@alburysl.co.uk

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

Analytical Report Number : 24-014117-2

Replaces Analytical Report Number: 24-014117, issue no. 1
Client references/information amended.
Sample ID amended on sample 170631 as per client request

Project / Site name:	Turners Hill Road, Crawley Down	Samples received on:	15/04/2024
Your job number:	24 12836 GO	Samples instructed on/ Analysis started on:	15/04/2024
Your order number:	15173	Analysis completed by:	19/04/2024
Report Issue Number:	2	Report issued on:	03/05/2024
Samples Analysed:	3 soil samples		


Signed:

Joanna Szwagrak
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

Analytical Report Number: 24-014117
Project / Site name: Turners Hill Road, Crawley Down
Your Order No: 15173

Lab Sample Number				170629	170630	170631
Sample Reference				3	4	6
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.75	0.50
Date Sampled				02/04/2024	02/04/2024	02/04/2024
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	15	19
Total mass of sample received	kg	0.1	NONE	0.6	0.4	0.6

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	< 0.80	-
-----------------------------	-------	-----	-----------	---	--------	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	-	11
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	-	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	-	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	-	32
Lead (aqua regia extractable)	mg/kg	1	MCERTS	42	-	180
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.6	-	15
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	33	-	220

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

Analytical Report Number : 24-014117

Project / Site name: Turners Hill Road, Crawley Down

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
170629	3	None Supplied	0.3	Brown clay and sand with vegetation
170630	4	None Supplied	0.75	Brown sandy clay
170631	6	None Supplied	0.5	Brown loam and clay with gravel and vegetation

Analytical Report Number : 24-014117
Project / Site name: Turners Hill Road, Crawley Down

Water matrix abbreviations:

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated EPA-16 PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

SUMMARY TABLE OF RESULTS

Borehole		1	2	3	3	4	4	5	6	6	6	6	7	GAC	PTE
Depth (m)		0.50	0.40	0.10	0.30	0.50	0.75	0.60	0.30	0.50	1.50	2.50	0.20	Residential with homegrown produce (1% SOM)	Vegetation
pH (L099)	pH Units	7.5	8	8.2	-	10.6	-	7.1	8.6	7.6	7	7.8	-		
Total Organic Carbon (TOC)		%	1.3	0.4	1.3	-	6.7	-	1.2	1.1	-	-	-		
Speciated PAHs															
Naphthalene	mg/kg	0.06	0.06	0.24	-	69	< 0.05	< 0.05	0.06	0.05	< 0.05	< 0.05	< 0.05	2.3	
Acenaphthylene	mg/kg	< 0.05	< 0.05	0.05	-	14	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	170	
Acenaphthene	mg/kg	0.05	0.09	0.44	-	190	< 0.05	< 0.05	0.1	0.05	< 0.05	< 0.05	< 0.05	210	
Fluorene	mg/kg	0.07	0.11	0.37	-	170	< 0.05	< 0.05	0.06	< 0.05	< 0.05	0.11	< 0.05	170	
Phenanthrene	mg/kg	0.42	0.72	2.9	-	1200	< 0.05	0.28	0.85	0.36	< 0.05	0.24	0.57	95	
Anthracene	mg/kg	0.07	0.17	0.75	-	370	< 0.05	0.05	0.21	0.08	< 0.05	< 0.05	0.15	2400	
Fluoranthene	mg/kg	0.61	0.94	4.2	-	1500	< 0.05	0.62	2	0.74	< 0.05	< 0.05	1.6	280	
Pyrene	mg/kg	0.58	0.87	3.8	-	1400	< 0.05	0.58	1.9	0.69	< 0.05	< 0.05	1.6	620	
Benzo(a)anthracene	mg/kg	0.27	0.39	1.8	-	640	< 0.05	0.32	1.1	< 0.05	< 0.05	< 0.05	0.77	7.2	
Chrysene	mg/kg	0.29	0.37	1.7	-	530	< 0.05	0.34	0.97	0.45	< 0.05	< 0.05	0.79	15	
Benzo(b)fluoranthene	mg/kg	0.38	0.52	2.2	-	560	< 0.05	0.45	1.3	0.69	< 0.05	< 0.05	1.2	2.6	
Benzo(k)fluoranthene	mg/kg	0.19	0.17	0.92	-	190	< 0.05	0.15	0.52	0.28	< 0.05	< 0.05	0.48	77	
Benzo(a)pyrene	mg/kg	0.3	0.41	2	-	450	< 0.05	0.35	1.1	0.64	< 0.05	< 0.05	0.93	2.2	
Indeno(1,2,3-cd)pyrene	mg/kg	0.17	0.25	1	-	270	< 0.05	0.17	0.53	0.4	< 0.05	< 0.05	0.6	27	
Dibenz(a,h)anthracene	mg/kg	< 0.05	< 0.05	0.25	-	69	< 0.05	< 0.05	< 0.05	0.15	< 0.05	< 0.05	< 0.05	0.24	
Benzo(ghi)perylene	mg/kg	0.26	0.29	1.3	-	310	< 0.05	0.25	0.71	0.46	< 0.05	< 0.05	0.7	320	
Total PAH															
Speciated Total EPA-16 PAHs		mg/kg	3.72	5.36	24	-	7860	< 0.80	3.56	11.4	5.05	< 0.80	< 0.80	9.28	
Heavy Metals / Metalloids															
Arsenic (aqua regia extractable)	mg/kg	10	10	20	10	13	-	8.2	13	11	-	-	-	37	
Beryllium (aqua regia extractable)	mg/kg	0.63	0.65	0.65	-	0.91	-	0.52	0.66		-	-	-	1.7	
Boron (water soluble)	mg/kg	1.5	0.9	0.9	0.6	0.8	-	0.8	0.8	0.9	-	-	-	290	
Cadmium (aqua regia extractable)	mg/kg	< 0.2	< 0.2	< 0.2	<0.2	0.6	-	1	< 0.2	<0.2	-	-	-	11	
Chromium (hexavalent) Low Level	mg/kg	< 1.2	< 1.2	< 1.2	-	< 1.2	-	< 1.2	< 1.2		-	-	-	6	
Chromium (III)	mg/kg	43	49	40	-	150	-	23	45		-	-	-	910	200
Chromium (aqua regia extractable)	mg/kg	43	49	40	23	150	-	23	45	24	-	-	-	-	
Copper (aqua regia extractable)	mg/kg	18	16	19	13	56	-	23	38	32	-	-	-	2400	
Lead (aqua regia extractable)	mg/kg	200	22	610	42	110	-	130	300	180	-	-	-	200	
Manganese (aqua regia extractable)	mg/kg	1600	820	730	-	360	-	840	500		-	-	-	2190	
Mercury (aqua regia extractable)	mg/kg	0.7	< 0.3	< 0.3	<0.3	< 0.3	-	< 0.3	< 0.3		-	-	-	11	110
Nickel (aqua regia extractable)	mg/kg	10	10	10	9.6	15	-	8.9	13	15	-	-	-	130	
Selenium (aqua regia extractable)	mg/kg	1.4	< 1.0	< 1.0	<1.0	< 1.0	-	< 1.0	< 1.0	<1.0	-	-	-	250	
Vanadium (aqua regia extractable)	mg/kg	24	38	24	-	28	-	22	28		-	-	-	410	
Zinc (aqua regia extractable)	mg/kg	60	37	100	33	130	-	200	160	220	-	-	-	3700	300
Petroleum Hydrocarbons															
TPHCWG - Aliphatic >C5 - C6	mg/kg	< 0.020	< 0.020	< 0.020		< 0.020		< 0.020	< 0.020	-	-	-	-		
TPHCWG - Aliphatic >C6 - C8	mg/kg	< 0.020	< 0.020	< 0.020	-	< 0.020	-	< 0.020	< 0.020	-	-	-	-		
TPHCWG - Aliphatic >C8 - C10	mg/kg	< 0.050	< 0.050	< 0.050	-	< 0.050	-	< 0.050	< 0.050	-	-	-	-		
TPHCWG - Aliphatic >C10 - C12	mg/kg	< 1.0	< 1.0	< 1.0	-	10	-	< 1.0	< 1.0	-	-	-	-	48(VAP)	
TPHCWG - Aliphatic >C12 - C16	mg/kg	< 2.0	< 2.0	< 2.0	-	89	-	< 2.0	< 2.0	-	-	-	-	1100 (24)sol	
TPHCWG - Aliphatic >C16 - C21	mg/kg	< 8.0	< 8.0	< 8.0	-	160	-	< 8.0	< 8.0	-	-	-	-	65000	
TPHCWG - Aliphatic >C21 - C35	mg/kg	13	< 8.0	< 8.0	-	460	-	< 8.0	16	-	-	-	-	65000	
TPHCWG - Aliphatic >C21 - C40	mg/kg	15	< 10	< 10	-	580	-	< 10	17	-	-	-	-	65000	
TPHCWG - Aliphatic >C35 - C44	mg/kg	< 8.4	< 8.4	< 8.4	-	200	-	< 8.4	< 8.4	-	-	-	-		
TPHCWG - Aliphatic >C5 - C35	mg/kg	13	< 10	< 10	-	720	-	< 10	16	-	-	-	-		
TPHCWG - Aliphatic >C5 - C44	mg/kg	13	< 10	< 10	-	920	-	< 10	16	-	-	-	-		
TPHCWG - Aromatic >EC5 - EC7	mg/kg	< 0.010	< 0.010	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-	-	-	-		
TPHCWG - Aromatic >EC7 - EC8	mg/kg	< 0.010	< 0.010	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-	-	-	-		
TPHCWG - Aromatic >EC8 - EC10	mg/kg	< 0.050	< 0.050	< 0.050	-	< 0.050	-	< 0.050	< 0.050	-	-	-	-		
TPHCWG - Aromatic >EC10 - EC12	mg/kg	< 1.0	< 1.0	1.3	-	35	-	2.1	< 1.0	-	-	-	-	74	
TPHCWG - Aromatic >EC12 - EC16	mg/kg	< 2.0	< 2.0	5.8	-	1800	-	5.8	< 2.0	-	-	-	-	140	
TPHCWG - Aromatic >EC16 - EC21	mg/kg	< 10	< 10	25	-	8100	-	< 10	< 10	-	-	-	-	260	1100
TPHCWG - Aromatic >EC21 - EC35	mg/kg	< 10	< 10	39	-	16000	-	< 10	21	-	-	-	-	1100	
TPHCWG - Aromatic >EC21 - EC40	mg/kg	< 10	< 10	44	-	16000	-	< 10	23	-	-	-	-	-	
TPHCWG - Aromatic >EC35 - EC44	mg/kg	< 8.4	< 8.4	< 8.4	-	850	-	< 8.4	< 8.4	-	-	-	-	1100	
TPHCWG - Aromatic >EC5 - EC35	mg/kg	< 10	< 10	71	-	26000	-	< 10	21	-	-	-	-	-	
TPHCWG - Aromatic >EC5 - EC44	mg/kg	< 10	< 10	71	-	26000	-	< 10	21	-	-	-	-	-	
TPH Total >C6 - C40															
TPH Total >C6 - C40		mg/kg	31	13	77	-	27000		25	51	-	-	-	-	
Petroleum Range Organics (C6 - C10)															
Petroleum Range Organics (C6 - C10)	mg/kg	< 1.0	< 1.0	< 1.0	-	1.6	-	< 1.0	< 1.0	-	-	-	-		
TPH (C10 - C40)	mg/kg	31	13	77	-	27000	-	25	51	-	-	-	-		

APPENDIX 4

DESICCATION

DESICCATION

Classification

The removal of moisture from a soil as a result of external influences with a constant stress regime, results in shrinkage or settlement of the soil. The magnitude of shrinkage is dependent upon the geological stress history of the soil, its clay content and the composition of the clay minerals. Under normal climatic conditions, there is a seasonal cyclic variation in soil moisture and, hence, volume change, which extends to depths of approximately 1m. When the soil moisture deficit attains a critical value, the shrinkage of the soil can become significant. In these circumstances, the soil can be regarded as being present in a desiccated state.

Causes

A common cause of desiccation consists of the reduction in soil moisture by tree root action. In the absence of a water table at shallow depth, root action of trees will reduce the soil moisture level in order to maintain growth. In general terms, the increase in rainfall which occurs during winter periods will allow for some replacement of the moisture content of the soil, particularly where isolated or immature trees are concerned.

However, when drought summer conditions or limited winter rainfall occurs, desiccated zones will develop within the zone of influence of tree roots. In woodland, desiccation develops as it is not possible for rainfall to overcome the soil moisture deficit. Other causes of desiccation, which have created problems to structures, include incorrectly installed and insulated heating pipes or ducts and industrial processes, ie furnaces or brick kilns.

Effects

The development of desiccation in clay soils will result in an increase in strength of the material. In addition, negative pore water pressure or soil suction will develop. Any foundation system located within soil which is subject to a reduction in soil moisture can experience structural distress, which results from the loss in volume or shrinkage of the ground. Also, if the source of the desiccation is removed, there will be heave of the soils as a result of an increase in equilibrium water content

It is evident, therefore, that foundation systems founded in soils which are actively experiencing an increase or decrease in soil moisture, will be subject to either heave or settlement, which can induce stresses within the structure. It should also be appreciated that a desiccated soil, which is experiencing an increase in equilibrium water content, will attempt to increase its volume in a horizontal as well as vertical plane. It is important, therefore, to ensure that horizontal movements do not apply differential stresses to structural elements, by incorporating collapsible membranes within remedial works.

Identification

A soil in a state of equilibrium is present in a semi-solid state. At the onset of desiccation, the condition of the soil moves towards the boundary between a solid and semi-solid state, this boundary being defined as the plastic limit of the soil. It follows, therefore, that when the natural water content of a soil lies close to, or falls below, the value of the plastic limit, the soil can be considered to be desiccated.

An alternative proposal was made by Driscoll (1983), who related the soil suction induced by desiccation to a function of the liquid limit of the soil. In general terms, desiccation is assumed to be present when the moisture content falls below a level of 40% liquid limit. The arbitrary factor of 0.4 relates to a soil suction value proposed by Croney (1977) and may vary with the composition and mineralogy of different soil types. This approach is only considered to be valid over a limited depth range as the overburden effect will result in a natural reduction in soil moisture and result in the development of negative pore pressures.

A further approach, which considers the shear strength of the clay, Pugh et al (1995), recognises the fact that a reduction in soil moisture will result in an increase in undrained shear strength as well as the development of negative pore pressures. Whilst this approach has a considerable amount of merit, care is required in establishing the value of the soil's in situ shear strength, particularly if it is not possible to obtain representative "undisturbed" samples from cable percussion boreholes. The proposal made in the Pugh paper that the simple pocket penetrometer will provide accurate consistent results should be treated with care, as the pocket penetrometer can take no account of the effects of disturbance and remoulding that are inevitable when completing a trial pit with a mechanical excavator. It is for this reason that this Company attempts to establish the shear strength of clay soils by using the Geonor Field Vane. With this test equipment the appropriate-sized vane is pushed into the side of the pit, through the thin disturbed zone which is caused by the teeth of the bucket during excavation. Furthermore, by use of the 'blank' probe, it is possible to take account of any skin friction which builds up on the shaft of the vane and thus provide a more accurate assessment of the shear strength of the soils.

Hence, a combination of the methods discussed above should be considered in order to confirm whether the development of soil moisture reduction to achieve a desiccated state has occurred within a particular site. The data for affected areas should, where possible, be compared with soils which lie outside the influence of tree root bulbs and may, therefore, be considered to be present in a stable and equilibrium state.

References

- | | |
|--|---|
| Croney D (1977) | The Design and Performance of Road Pavements
London HMSO pp 674 |
| Driscoll R (1983) | The Influence of Vegetation on the Swelling and Shrinking of Clay Soils in Britain
Geotechnique 33.4 pp 93-105 |
| Pugh RS, Parnell PG
and Parks RD (1995) | A rapid and reliable on site method of assessing desiccation in clay soils
Geotechnical Engineering 13 Jan 1995 pp 25—30 |

APPENDIX 5

WASTE

WASTE CLASSIFICATION

The European Waste Framework Directive is implemented in the UK by the 2002 Landfill Regulations, together with a number of other acts and regulations. A key part of this process is to establish the hazardous properties of potential waste. The classification and definition of hazardous waste is interpreted within the Environment Agency guidance WM3 and all wastes require classifying in accordance with the European Waste Catalogue [EWC]. The EWC is a detailed list of typical industry waste types and each has a 6 digit code. Typically the appropriate EWC codes for excavated soil being disposed off site are:

- 17 05 03* soil and stones containing dangerous substances, or
- 17 05 04 soil and stones other than those mentioned in 17 05 03

If excavated soils are to be discarded or exported from site then they would be considered controlled waste and require classification. However, if soils can be re-used on site then they are not considered to be controlled waste. A Desk Study, soil descriptions, laboratory chemical analysis and risk assessment can all contribute to basic waste characterisation. Depending upon the chemical composition or levels of contaminants in the waste (e.g. metals, TPH, asbestos), soil and stones can either be hazardous or non-hazardous. Waste Acceptance Criteria [WAC] test results are used to determine the suitability of the waste intended for disposal against the acceptance criteria for a particular class of landfill site. WAC tests are not used for the classification of waste soils and are only required for inert or hazardous excavated material which is destined for landfill.

Wastes containing asbestos with a concentration of >0.10% weight/weight (w/w) are generally considered to be hazardous. While waste with <0.10% w/w of asbestos are considered non-hazardous. Where free fibres or fibrous asbestos is present at concentrations of >0.001% then these are considered to pose a risk to human health and are deemed hazardous waste. These waste materials also require a suitably licensed company to handle them.

Waste Treatment

It is a requirement of the 2002 Landfill Regulations that all wastes must undergo some form of pre-treatment prior to disposal at an appropriately licensed landfill. Treatment is defined using a 'three-point test' and can include physical, chemical, biological or thermal processes, which must change the characteristics of the waste in order to:

- reduce its volume, or
- reduce its hazardous nature, or
- facilitate its handling, or
- enhance its recovery.

The exceptions to this are:

- inert waste for which treatment is not technically feasible.
- it is waste other than inert waste and treatment would not reduce its quantity or its hazards to human health or the environment.

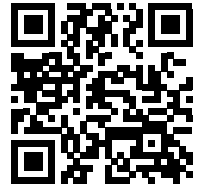
The waste producer should either treat their own waste or ensure that the waste will be treated by a subsequent handler. The waste producer should record the type and amount of pre-treatment undertaken prior to disposal.

Examples of treatment include mechanical segregation or sorting, composting, soil treatment hubs and incineration. This can include physical sorting of waste soil types into separate stockpiles at the producer site, e.g. topsoil, made ground and natural clay, sand or gravels.

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)



8XNOR-TARRC-C6R1E

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

Job name

24-012101_HWOL

Description/Comments

Project

24/12836/A/GO

Site

Turners Hill Road, Crawley Down

Classified by

Name: **George Owens**
 Date: **02 May 2024 11:44 GMT**
 Telephone: **01428 684 836**
 Company: **Albury SI Ltd**
Miltons Yard, Petworth Rd, Witley
Godalming
GU8 5LH

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

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

-

Purpose of classification

2 - Material Characterisation

Address of the waste

Palmers Autocentre Tyres, Turners Hill Road, Crawley Down

Post Code RH10 4HQ

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 industrial units to provide 4 no residential dwellings

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

Waste soil arisings from foundation excavations

Description of the waste

made ground and clay

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	1--02042024-0.50		Non Hazardous		4
2	2--02042024-0.40		Non Hazardous		7
3	3--02042024-0.10		Non Hazardous		10
4	4--02042024-0.50		Hazardous	HP 3(i), HP 7, HP 11, HP 14	13
5	5--02042024-0.60		Non Hazardous		16
6	6--02042024-0.30		Non Hazardous		19
7	6--02042024-0.50		Non Hazardous		22
8	6--02042024-1.50		Non Hazardous		27
9	6--02042024-2.50		Non Hazardous		32
10	7--02042024-0.20		Non Hazardous		37

Related documents

#	Name	Description
1	24-012101_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: George Owens

Created date: 02 May 2024 11:44 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	42
Appendix B: Rationale for selection of metal species	46
Appendix C: Version	47

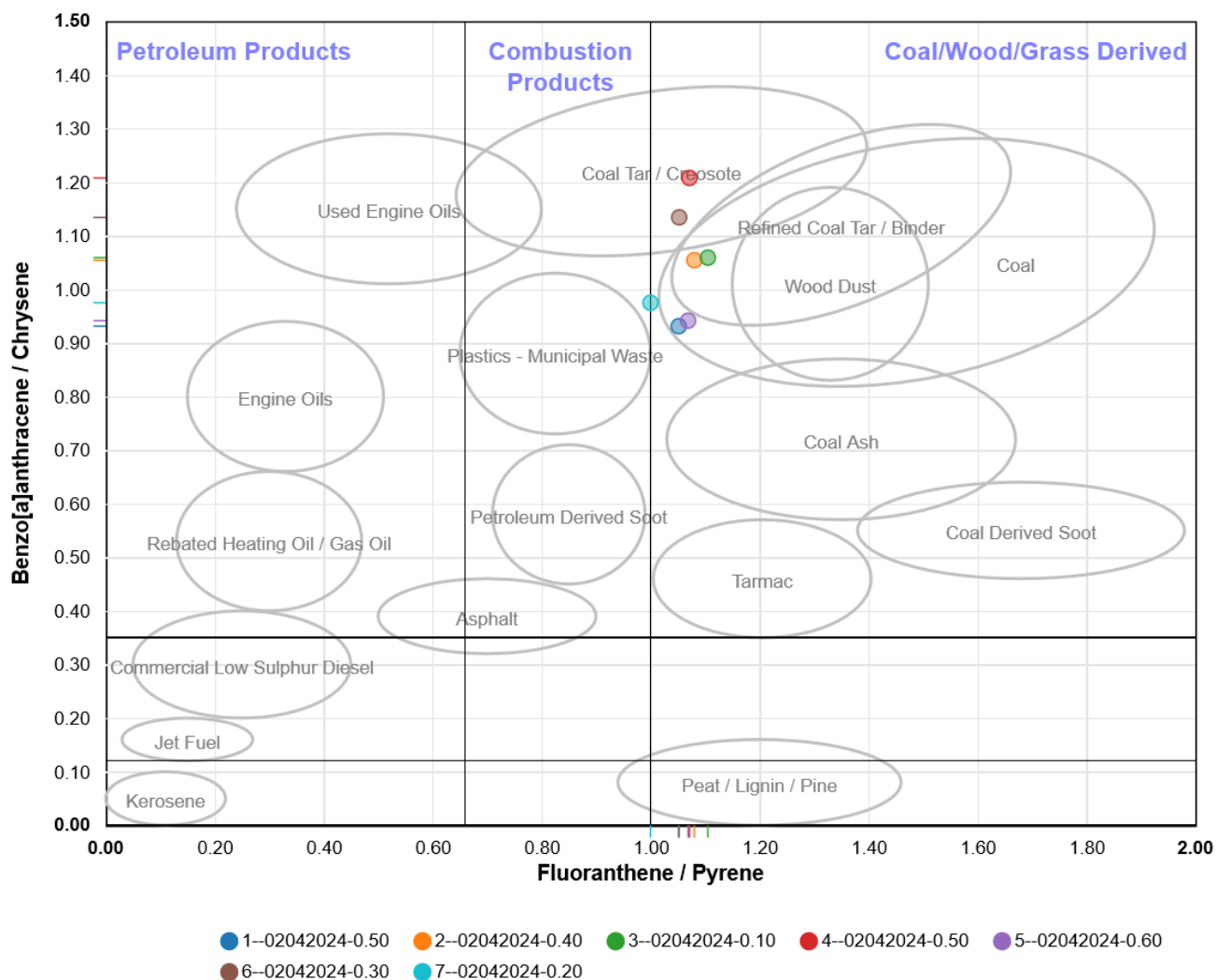
PAH Double Ratio Plot

Disclaimer

The domains, oval areas and the plotted points are **indicators only** and must be combined with other lines of evidence to form conclusions. Samples marked with an empty circle are not plotted as they fall outside of the graph's boundaries.

Credits

The domains and the horizontal and vertical lines are derived from Yunker et al. 2002 (Organic Geochemistry 33, 489-515)



Credits for the oval areas and labels

HazWasteOnline, 2023; Jones Environmental Forensics, 2014

Classification of sample: 1--02042024-0.50

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

Sample details

Sample name:	LoW Code:
1--02042024-0.50	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
17%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% 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		arsenic { arsenic trioxide }				10 mg/kg	1.32	10.959 mg/kg	0.0011 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		beryllium { beryllium oxide }				0.63 mg/kg	2.775	1.451 mg/kg	0.000145 %	✓		
		004-003-00-8	215-133-1	1304-56-9								
3		boron { diboron trioxide }				1.5 mg/kg	3.22	4.009 mg/kg	0.000401 %	✓		
		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) }				43 mg/kg	1.462	62.847 mg/kg	0.00628 %			
			215-160-9	1308-38-9								
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD	
		024-017-00-8										
7		copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	16.821 mg/kg	0.00168 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }			1	200 mg/kg	1.56	258.929 mg/kg	0.0166 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
9		manganese { manganese sulphate }				1600 mg/kg	2.749	3650.093 mg/kg	0.365 %	✓		
		025-003-00-4	232-089-9	7785-87-7								
10		mercury { mercury dichloride }				0.7 mg/kg	1.353	0.786 mg/kg	0.0000786 %	✓		
		080-010-00-X	231-299-8	7487-94-7								
11		nickel { nickel chromate }				10 mg/kg	2.976	24.703 mg/kg	0.00247 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
12		selenium { nickel selenate }				1.4 mg/kg	2.554	2.968 mg/kg	0.000297 %	✓		
		028-031-00-5	239-125-2	15060-62-5								
13		zinc { zinc chromate }				60 mg/kg	2.774	138.152 mg/kg	0.0138 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
14		TPH (C6 to C40) petroleum group				13 mg/kg		10.79 mg/kg	0.00108 %	✓		
				TPH								
15		confirm TPH has NOT arisen from diesel or petrol				☒						
16		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								

#	Determinand			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	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
20	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
21	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									
22	pH				7.5 pH		7.5 pH	7.5 pH		
			PH							
23	naphthalene				0.06 mg/kg		0.0498 mg/kg	0.00000498 %	✓	
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
25	acenaphthene				0.05 mg/kg		0.0415 mg/kg	0.00000415 %	✓	
		201-469-6	83-32-9							
26	fluorene				0.07 mg/kg		0.0581 mg/kg	0.00000581 %	✓	
		201-695-5	86-73-7							
27	phenanthrene				0.42 mg/kg		0.349 mg/kg	0.0000349 %	✓	
		201-581-5	85-01-8							
28	anthracene				0.07 mg/kg		0.0581 mg/kg	0.00000581 %	✓	
		204-371-1	120-12-7							
29	fluoranthene				0.61 mg/kg		0.506 mg/kg	0.0000506 %	✓	
		205-912-4	206-44-0							
30	pyrene				0.58 mg/kg		0.481 mg/kg	0.0000481 %	✓	
		204-927-3	129-00-0							
31	benzo[a]anthracene				0.27 mg/kg		0.224 mg/kg	0.0000224 %	✓	
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				0.29 mg/kg		0.241 mg/kg	0.0000241 %	✓	
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				0.38 mg/kg		0.315 mg/kg	0.0000315 %	✓	
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				0.19 mg/kg		0.158 mg/kg	0.0000158 %	✓	
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				0.3 mg/kg		0.249 mg/kg	0.0000249 %	✓	
	601-032-00-3	200-028-5	50-32-8							
36	indeno[123-cd]pyrene				0.17 mg/kg		0.141 mg/kg	0.0000141 %	✓	
		205-893-2	193-39-5							
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
38	benzo[ghi]perylene				0.26 mg/kg		0.216 mg/kg	0.0000216 %	✓	
		205-883-8	191-24-2							
39	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
40	vanadium { divanadium pentaoxide; vanadium pentoxide }				24 mg/kg	1.785	35.561 mg/kg	0.00356 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
41	sulfur { sulfur }				140 mg/kg		116.2 mg/kg	0.0116 %	✓	
	016-094-00-1	231-722-6	7704-34-9							
Total:								0.425 %		

Key

	User 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 example given in WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00108%)

Classification of sample: 2--02042024-0.40

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

Sample details

Sample name:	LoW Code:	
2--02042024-0.40	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18% (wet weight correction)		

Hazard properties

None identified

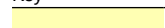
Determinands

Moisture content: 18% 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	arsenic { arsenic trioxide }				10 mg/kg	1.32	10.827	mg/kg	0.00108 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.65 mg/kg	2.775	1.479	mg/kg	0.000148 %	✓	
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide }				0.9 mg/kg	3.22	2.376	mg/kg	0.000238 %	✓	
	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) }				49 mg/kg	1.462	71.616	mg/kg	0.00716 %		
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	14.772	mg/kg	0.00148 %	✓	
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	22 mg/kg	1.56	28.139	mg/kg	0.0018 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
9	manganese { manganese sulphate }				820 mg/kg	2.749	1848.134	mg/kg	0.185 %	✓	
	025-003-00-4	232-089-9	7785-87-7								
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
11	nickel { nickel chromate }				10 mg/kg	2.976	24.405	mg/kg	0.00244 %	✓	
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				37 mg/kg	2.774	84.168	mg/kg	0.00842 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<20 mg/kg		<20	mg/kg	<0.002 %		<LOD
			TPH								
15	confirm TPH has NOT arisen from diesel or petrol				☑						
16	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								

#	Determinand			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	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
20	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
21	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									
22	pH		PH		8 pH		8 pH	8pH		
23	naphthalene				0.06 mg/kg		0.0492 mg/kg	0.00000492 %	✓	
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
25	acenaphthene				0.09 mg/kg		0.0738 mg/kg	0.00000738 %	✓	
		201-469-6	83-32-9							
26	fluorene				0.11 mg/kg		0.0902 mg/kg	0.00000902 %	✓	
		201-695-5	86-73-7							
27	phenanthrene				0.72 mg/kg		0.59 mg/kg	0.000059 %	✓	
		201-581-5	85-01-8							
28	anthracene				0.17 mg/kg		0.139 mg/kg	0.0000139 %	✓	
		204-371-1	120-12-7							
29	fluoranthene				0.94 mg/kg		0.771 mg/kg	0.0000771 %	✓	
		205-912-4	206-44-0							
30	pyrene				0.87 mg/kg		0.713 mg/kg	0.0000713 %	✓	
		204-927-3	129-00-0							
31	benzo[a]anthracene				0.39 mg/kg		0.32 mg/kg	0.000032 %	✓	
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				0.37 mg/kg		0.303 mg/kg	0.0000303 %	✓	
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				0.52 mg/kg		0.426 mg/kg	0.0000426 %	✓	
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				0.17 mg/kg		0.139 mg/kg	0.0000139 %	✓	
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				0.41 mg/kg		0.336 mg/kg	0.0000336 %	✓	
	601-032-00-3	200-028-5	50-32-8							
36	indeno[123-cd]pyrene				0.25 mg/kg		0.205 mg/kg	0.0000205 %	✓	
		205-893-2	193-39-5							
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
38	benzo[ghi]perylene				0.29 mg/kg		0.238 mg/kg	0.0000238 %	✓	
		205-883-8	191-24-2							
39	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
40	vanadium { divanadium pentaoxide; vanadium pentoxide }				38 mg/kg	1.785	55.626 mg/kg	0.00556 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
41	sulfur { sulfur }				17 mg/kg		13.94 mg/kg	0.00139 %	✓	
	016-094-00-1	231-722-6	7704-34-9							
Total:								0.218 %		

Key

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

Classification of sample: 3--02042024-0.10

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

Sample details

Sample name:	LoW Code:
3--02042024-0.10	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
13%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				20	mg/kg	1.32	22.974	mg/kg	0.0023 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		beryllium { beryllium oxide }				0.65	mg/kg	2.775	1.569	mg/kg	0.000157 %	✓	
		004-003-00-8	215-133-1	1304-56-9									
3		boron { diboron trioxide }				0.9	mg/kg	3.22	2.521	mg/kg	0.000252 %	✓	
		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) }				40	mg/kg	1.462	58.462	mg/kg	0.00585 %		
			215-160-9	1308-38-9									
6		chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8											
7		copper { dicopper oxide; copper (I) oxide }				19	mg/kg	1.126	18.611	mg/kg	0.00186 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
8		lead { lead chromate }			1	610	mg/kg	1.56	827.794	mg/kg	0.0531 %	✓	
		082-004-00-2	231-846-0	7758-97-6									
9		manganese { manganese sulphate }				730	mg/kg	2.749	1745.613	mg/kg	0.175 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
10		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
11		nickel { nickel chromate }				10	mg/kg	2.976	25.894	mg/kg	0.00259 %	✓	
		028-035-00-7	238-766-5	14721-18-7									
12		selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									
13		zinc { zinc chromate }				100	mg/kg	2.774	241.351	mg/kg	0.0241 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
14		TPH (C6 to C40) petroleum group				71	mg/kg		61.77	mg/kg	0.00618 %	✓	
				TPH									
15		confirm TPH has NOT arisen from diesel or petrol				☒							
16		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									

#	Determinand			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	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
20	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
21	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									
22	pH				8.2 pH		8.2 pH	8.2 pH		
			PH							
23	naphthalene				0.24 mg/kg		0.209 mg/kg	0.0000209 %	✓	
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				0.05 mg/kg		0.0435 mg/kg	0.00000435 %	✓	
		205-917-1	208-96-8							
25	acenaphthene				0.44 mg/kg		0.383 mg/kg	0.0000383 %	✓	
		201-469-6	83-32-9							
26	fluorene				0.37 mg/kg		0.322 mg/kg	0.0000322 %	✓	
		201-695-5	86-73-7							
27	phenanthrene				2.9 mg/kg		2.523 mg/kg	0.000252 %	✓	
		201-581-5	85-01-8							
28	anthracene				0.75 mg/kg		0.653 mg/kg	0.0000653 %	✓	
		204-371-1	120-12-7							
29	fluoranthene				4.2 mg/kg		3.654 mg/kg	0.000365 %	✓	
		205-912-4	206-44-0							
30	pyrene				3.8 mg/kg		3.306 mg/kg	0.000331 %	✓	
		204-927-3	129-00-0							
31	benzo[a]anthracene				1.8 mg/kg		1.566 mg/kg	0.000157 %	✓	
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				1.7 mg/kg		1.479 mg/kg	0.000148 %	✓	
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				2.2 mg/kg		1.914 mg/kg	0.000191 %	✓	
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				0.92 mg/kg		0.8 mg/kg	0.00008 %	✓	
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				2 mg/kg		1.74 mg/kg	0.000174 %	✓	
	601-032-00-3	200-028-5	50-32-8							
36	indeno[123-cd]pyrene				1 mg/kg		0.87 mg/kg	0.000087 %	✓	
		205-893-2	193-39-5							
37	dibenz[a,h]anthracene				0.25 mg/kg		0.218 mg/kg	0.0000218 %	✓	
	601-041-00-2	200-181-8	53-70-3							
38	benzo[ghi]perylene				1.3 mg/kg		1.131 mg/kg	0.000113 %	✓	
		205-883-8	191-24-2							
39	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
40	vanadium { divanadium pentoxide; vanadium pentoxide }				24 mg/kg	1.785	37.275 mg/kg	0.00373 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
41	sulfur { sulfur }				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	016-094-00-1	231-722-6	7704-34-9							
Total:								0.278 %		

Key

	User 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 example given in WM3

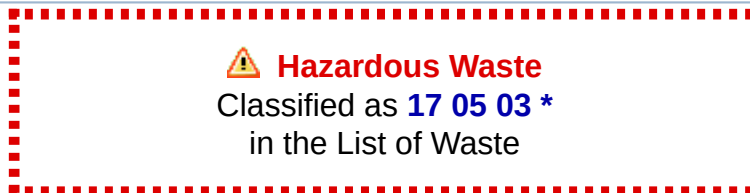
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00618%)

Classification of sample: 4--02042024-0.50



Sample details

Sample name:	LoW Code:	
4--02042024-0.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
7.2% (wet weight correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 2.498%)

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.: 2.498%)

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 determinands:

phenanthrene: (conc.: 0.111%)

fluoranthene: (conc.: 0.139%)

pyrene: (conc.: 0.13%)

Aquatic Chronic 2; H411 "Toxic to aquatic life with long lasting effects."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 2.498%)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 2.498%)

Determinands

Moisture content: 7.2% 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		arsenic { arsenic trioxide }				13 mg/kg	1.32	15.928 mg/kg	0.00159 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		beryllium { beryllium oxide }				0.91 mg/kg	2.775	2.344 mg/kg	0.000234 %	✓		
		004-003-00-8	215-133-1	1304-56-9								
3		boron { diboron trioxide }				0.8 mg/kg	3.22	2.39 mg/kg	0.000239 %	✓		
		005-008-00-8	215-125-8	1303-86-2								
4		cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.636 mg/kg	0.0000636 %	✓		
		048-002-00-0	215-146-2	1306-19-0								
5		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				150 mg/kg	1.462	219.233 mg/kg	0.0219 %			
			215-160-9	1308-38-9								
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD	
		024-017-00-8										
7		copper { dicopper oxide; copper (I) oxide }				56 mg/kg	1.126	58.51 mg/kg	0.00585 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
8		lead { lead chromate }			1	110 mg/kg	1.56	159.226 mg/kg	0.0102 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
9		manganese { manganese sulphate }				360 mg/kg	2.749	918.24 mg/kg	0.0918 %	✓		
		025-003-00-4	232-089-9	7785-87-7								
10		mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD	
		080-010-00-X	231-299-8	7487-94-7								
11		nickel { nickel chromate }				15 mg/kg	2.976	41.43 mg/kg	0.00414 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
12		selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD	
		028-031-00-5	239-125-2	15060-62-5								
13		zinc { zinc chromate }				130 mg/kg	2.774	334.673 mg/kg	0.0335 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
14		TPH (C6 to C40) petroleum group				26920 mg/kg		24981.76 mg/kg	2.498 %	✓		
				TPH								
15		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
16		benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
17		toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
18		ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-023-00-4	202-849-4	100-41-4								
19		xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
20		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										
21		pH				10.6 pH		10.6 pH	10.6 pH			
				PH								
22		naphthalene				69 mg/kg		64.032 mg/kg	0.0064 %	✓		
		601-052-00-2	202-049-5	91-20-3								
23		acenaphthylene				14 mg/kg		12.992 mg/kg	0.0013 %	✓		
			205-917-1	208-96-8								
24		acenaphthene				190 mg/kg		176.32 mg/kg	0.0176 %	✓		
			201-469-6	83-32-9								
25		fluorene				170 mg/kg		157.76 mg/kg	0.0158 %	✓		
			201-695-5	86-73-7								

#	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							
26	phenanthrene	201-581-5	85-01-8		1200 mg/kg		1113.6 mg/kg	0.111 %	✓	
27	anthracene	204-371-1	120-12-7		370 mg/kg		343.36 mg/kg	0.0343 %	✓	
28	fluoranthene	205-912-4	206-44-0		1500 mg/kg		1392 mg/kg	0.139 %	✓	
29	pyrene	204-927-3	129-00-0		1400 mg/kg		1299.2 mg/kg	0.13 %	✓	
30	benzo[a]anthracene	200-033-00-9	200-280-6		640 mg/kg		593.92 mg/kg	0.0594 %	✓	
31	chrysene	205-048-00-0	205-923-4		530 mg/kg		491.84 mg/kg	0.0492 %	✓	
32	benzo[b]fluoranthene	205-034-00-4	205-911-9		560 mg/kg		519.68 mg/kg	0.052 %	✓	
33	benzo[k]fluoranthene	205-036-00-5	205-916-6		190 mg/kg		176.32 mg/kg	0.0176 %	✓	
34	benzo[a]pyrene; benzo[def]chrysene	200-032-00-3	200-028-5		450 mg/kg		417.6 mg/kg	0.0418 %	✓	
35	indeno[123-cd]pyrene	205-893-2	193-39-5		270 mg/kg		250.56 mg/kg	0.0251 %	✓	
36	dibenz[a,h]anthracene	200-041-00-2	200-181-8		69 mg/kg		64.032 mg/kg	0.0064 %	✓	
37	benzo[ghi]perylene	205-883-8	191-24-2		310 mg/kg		287.68 mg/kg	0.0288 %	✓	
38	monohydric phenols		P1186		1.1 mg/kg		1.1 mg/kg	0.00011 %		
39	vanadium { divanadium pentaoxide; vanadium pentoxide }	215-023-00-8	1314-62-1		28 mg/kg	1.785	46.386 mg/kg	0.00464 %	✓	
40	sulfur { sulfur }	231-016-00-1	7704-34-9		<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
Total:								3.41 %		

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

Classification of sample: 5--02042024-0.60

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

Sample details

Sample name:	LoW Code:
5--02042024-0.60	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
20%	Entry:
(wet weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

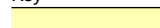
Determinands

Moisture content: 20% 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		arsenic { arsenic trioxide }				8.2	mg/kg	1.32	8.661	mg/kg	0.000866 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		beryllium { beryllium oxide }				0.52	mg/kg	2.775	1.155	mg/kg	0.000115 %	✓	
		004-003-00-8	215-133-1	1304-56-9									
3		boron { diboron trioxide }				0.8	mg/kg	3.22	2.061	mg/kg	0.000206 %	✓	
		005-008-00-8	215-125-8	1303-86-2									
4		cadmium { cadmium oxide }				1	mg/kg	1.142	0.914	mg/kg	0.0000914 %	✓	
		048-002-00-0	215-146-2	1306-19-0									
5		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				23	mg/kg	1.462	33.616	mg/kg	0.00336 %		
			215-160-9	1308-38-9									
6		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2	mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
		024-017-00-8											
7		copper { dicopper oxide; copper (I) oxide }				23	mg/kg	1.126	20.716	mg/kg	0.00207 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
8		lead { lead chromate }			1	130	mg/kg	1.56	162.221	mg/kg	0.0104 %	✓	
		082-004-00-2	231-846-0	7758-97-6									
9		manganese { manganese sulphate }				840	mg/kg	2.749	1847.035	mg/kg	0.185 %	✓	
		025-003-00-4	232-089-9	7785-87-7									
10		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
11		nickel { nickel chromate }				8.9	mg/kg	2.976	21.191	mg/kg	0.00212 %	✓	
		028-035-00-7	238-766-5	14721-18-7									
12		selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									
13		zinc { zinc chromate }				200	mg/kg	2.774	443.863	mg/kg	0.0444 %	✓	
		024-007-00-3	236-878-9	13530-65-9									
14		TPH (C6 to C40) petroleum group				<20	mg/kg		<20	mg/kg	<0.002 %		<LOD
				TPH									
15		confirm TPH has NOT arisen from diesel or petrol				☒							
16		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									

#	Determinand			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	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
21	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										
22	pH				7.1 pH		7.1 pH	7.1 pH			
			PH								
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
27	phenanthrene				0.28 mg/kg		0.224 mg/kg	0.0000224 %	✓		
		201-581-5	85-01-8								
28	anthracene				0.05 mg/kg		0.04 mg/kg	0.000004 %	✓		
		204-371-1	120-12-7								
29	fluoranthene				0.62 mg/kg		0.496 mg/kg	0.0000496 %	✓		
		205-912-4	206-44-0								
30	pyrene				0.58 mg/kg		0.464 mg/kg	0.0000464 %	✓		
		204-927-3	129-00-0								
31	benzo[a]anthracene				0.32 mg/kg		0.256 mg/kg	0.0000256 %	✓		
	601-033-00-9	200-280-6	56-55-3								
32	chrysene				0.34 mg/kg		0.272 mg/kg	0.0000272 %	✓		
	601-048-00-0	205-923-4	218-01-9								
33	benzo[b]fluoranthene				0.45 mg/kg		0.36 mg/kg	0.000036 %	✓		
	601-034-00-4	205-911-9	205-99-2								
34	benzo[k]fluoranthene				0.15 mg/kg		0.12 mg/kg	0.000012 %	✓		
	601-036-00-5	205-916-6	207-08-9								
35	benzo[a]pyrene; benzo[def]chrysene				0.35 mg/kg		0.28 mg/kg	0.000028 %	✓		
	601-032-00-3	200-028-5	50-32-8								
36	indeno[123-cd]pyrene				0.17 mg/kg		0.136 mg/kg	0.0000136 %	✓		
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
38	benzo[ghi]perylene				0.25 mg/kg		0.2 mg/kg	0.00002 %	✓		
		205-883-8	191-24-2								
39	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
40	vanadium { divanadium pentaoxide; vanadium pentoxide }				22 mg/kg	1.785	31.419 mg/kg	0.00314 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
41	sulfur { sulfur }				56 mg/kg		44.8 mg/kg	0.00448 %	✓		
	016-094-00-1	231-722-6	7704-34-9								
Total:									0.259 %		

Key

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

Classification of sample: 6--02042024-0.30

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

Sample details

Sample name:	LoW Code:	
6--02042024-0.30	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 18% 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	arsenic { arsenic trioxide }				13 mg/kg	1.32	14.075	mg/kg	0.00141 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.66 mg/kg	2.775	1.502	mg/kg	0.00015 %	✓	
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide }				0.8 mg/kg	3.22	2.112	mg/kg	0.000211 %	✓	
	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) }				45 mg/kg	1.462	65.77	mg/kg	0.00658 %		
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				38 mg/kg	1.126	35.083	mg/kg	0.00351 %	✓	
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	300 mg/kg	1.56	383.715	mg/kg	0.0246 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
9	manganese { manganese sulphate }				500 mg/kg	2.749	1126.911	mg/kg	0.113 %	✓	
	025-003-00-4	232-089-9	7785-87-7								
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
11	nickel { nickel chromate }				13 mg/kg	2.976	31.727	mg/kg	0.00317 %	✓	
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				160 mg/kg	2.774	363.968	mg/kg	0.0364 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group		TPH		37 mg/kg		30.34	mg/kg	0.00303 %	✓	
15	confirm TPH has NOT arisen from diesel or petrol				☒						
16	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								

#	Determinand			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	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
20	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
21	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									
22	pH		PH		8.6 pH		8.6 pH	8.6 pH		
23	naphthalene				0.06 mg/kg		0.0492 mg/kg	0.00000492 %	✓	
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
25	acenaphthene				0.1 mg/kg		0.082 mg/kg	0.0000082 %	✓	
		201-469-6	83-32-9							
26	fluorene				0.06 mg/kg		0.0492 mg/kg	0.00000492 %	✓	
		201-695-5	86-73-7							
27	phenanthrene				0.85 mg/kg		0.697 mg/kg	0.0000697 %	✓	
		201-581-5	85-01-8							
28	anthracene				0.21 mg/kg		0.172 mg/kg	0.0000172 %	✓	
		204-371-1	120-12-7							
29	fluoranthene				2 mg/kg		1.64 mg/kg	0.000164 %	✓	
		205-912-4	206-44-0							
30	pyrene				1.9 mg/kg		1.558 mg/kg	0.000156 %	✓	
		204-927-3	129-00-0							
31	benzo[a]anthracene				1.1 mg/kg		0.902 mg/kg	0.0000902 %	✓	
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				0.97 mg/kg		0.795 mg/kg	0.0000795 %	✓	
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				1.3 mg/kg		1.066 mg/kg	0.000107 %	✓	
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				0.52 mg/kg		0.426 mg/kg	0.0000426 %	✓	
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				1.1 mg/kg		0.902 mg/kg	0.0000902 %	✓	
	601-032-00-3	200-028-5	50-32-8							
36	indeno[123-cd]pyrene				0.53 mg/kg		0.435 mg/kg	0.0000435 %	✓	
		205-893-2	193-39-5							
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
38	benzo[ghi]perylene				0.71 mg/kg		0.582 mg/kg	0.0000582 %	✓	
		205-883-8	191-24-2							
39	monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
40	vanadium { divanadium pentaoxide; vanadium pentoxide }				28 mg/kg	1.785	40.988 mg/kg	0.0041 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
41	sulfur { sulfur }				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	016-094-00-1	231-722-6	7704-34-9							
Total:								0.198 %		

Key

	User 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 example given in WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00303%)

Classification of sample: 6--02042024-0.50

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

Sample details

Sample name:	LoW Code:	
6--02042024-0.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 20% 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	confirm TPH has NOT arisen from diesel or petrol				☒					
2	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
3	benzene 601-020-00-8 200-753-7 71-43-2				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
4	toluene 601-021-00-3 203-625-9 108-88-3				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
5	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
6	xylene 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]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	pH PH				7.6 pH		7.6 pH	7.6 pH		
8	naphthalene 601-052-00-2 202-049-5 91-20-3				0.05 mg/kg		0.04 mg/kg	0.000004 %	✓	
9	acenaphthylene 205-917-1 208-96-8				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	acenaphthene 201-469-6 83-32-9				0.05 mg/kg		0.04 mg/kg	0.000004 %	✓	
11	fluorene 201-695-5 86-73-7				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
12	phenanthrene 201-581-5 85-01-8				0.36 mg/kg		0.288 mg/kg	0.0000288 %	✓	
13	anthracene 204-371-1 120-12-7				0.08 mg/kg		0.064 mg/kg	0.0000064 %	✓	
14	fluoranthene 205-912-4 206-44-0				0.74 mg/kg		0.592 mg/kg	0.0000592 %	✓	
15	pyrene 204-927-3 129-00-0				0.69 mg/kg		0.552 mg/kg	0.0000552 %	✓	
16	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<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							
17	chrysene				0.45 mg/kg		0.36 mg/kg	0.000036 %	✓	
	601-048-00-0	205-923-4	218-01-9							
18	benzo[b]fluoranthene				0.69 mg/kg		0.552 mg/kg	0.0000552 %	✓	
	601-034-00-4	205-911-9	205-99-2							
19	benzo[k]fluoranthene				0.28 mg/kg		0.224 mg/kg	0.0000224 %	✓	
	601-036-00-5	205-916-6	207-08-9							
20	benzo[a]pyrene; benzo[def]chrysene				0.64 mg/kg		0.512 mg/kg	0.0000512 %	✓	
	601-032-00-3	200-028-5	50-32-8							
21	indeno[123-cd]pyrene				0.4 mg/kg		0.32 mg/kg	0.000032 %	✓	
		205-893-2	193-39-5							
22	dibenz[a,h]anthracene				0.15 mg/kg		0.12 mg/kg	0.000012 %	✓	
	601-041-00-2	200-181-8	53-70-3							
23	benzo[ghi]perylene				0.46 mg/kg		0.368 mg/kg	0.0000368 %	✓	
		205-883-8	191-24-2							
24	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
25	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							
26	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
27	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
28	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
29	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
30	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
31	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
32	bromobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
33	bromomethane; methylbromide				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
34	1,2,4-trichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
35	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							
36	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		203-209-7	104-51-8							
37	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]							
38	chlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
39	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
40	chloromethane; methyl chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
41	1,2-dibromoethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
42	dibromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		204-704-0	124-48-1							
43	1,2-dibromo-3-chloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
44	dibromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
45	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							
46	2,2-dichloropropane	209-832-0	594-20-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
47	1,1-dichloropropene	602-031-00-0	209-253-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
48	1,3-dichloropropane	205-531-3	142-28-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
49	hexachlorobutadiene	201-765-5	87-68-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
50	cumene	601-024-00-X	202-704-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
51	4-isopropyltoluene	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
52	1,3-dichlorobenzene	602-067-00-7	208-792-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
53	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
54	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
55	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
56	sec-butylbenzene	205-227-0	135-98-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
57	styrene	601-026-00-0	202-851-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
58	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
59	bromoform; tribromomethane	602-007-00-X	200-854-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
60	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
61	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
62	trichlorofluoromethane	200-892-3	75-69-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
63	1,1,1,2-tetrachloroethane	602-015-00-3	201-197-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
64	chloroform; trichloromethane	602-006-00-4	200-663-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
65	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
66	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
67	1,2,4-trimethylbenzene	601-043-00-3	202-436-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
68	1,1,2-trichloroethane	602-014-00-8	201-166-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
69	dibenzofuran	205-071-3	132-64-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
70	2,4-dichlorophenol	604-011-00-7	204-429-6		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
71	diethyl phthalate	201-550-6	84-66-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
72	dibutyl phthalate; DBP	607-318-00-4	201-557-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
73	dimethyl phthalate	205-011-6	131-11-3		<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							
74	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1]							
		202-461-5 [2]	95-87-4 [2]							
		203-321-6 [3]	105-67-9 [3]							
		208-395-3 [4]	526-75-0 [4]							
		209-400-1 [5]	576-26-1 [5]							
		215-089-3 [6]	1300-71-6 [6]							
75	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0 [1]	121-14-2 [1]							
76	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
77	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
78	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
79	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
80	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-008-00-0	202-433-2 [1]	95-57-8 [1]							
		203-402-6 [2]	106-48-9 [2]							
		203-582-6 [3]	108-43-0 [3]							
		246-691-4 [4]	25167-80-0 [4]							
81	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
82	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
83	4-chlorophenylphenylether				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		230-281-7	7005-72-3							
84	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	612-012-00-9	201-855-4 [1]	88-74-4 [1]							
		202-729-1 [2]	99-09-2 [2]							
		202-810-1 [3]	100-01-6 [3]							
85	2,4,5-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
86	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
87	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
88	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
89	anthraquinone				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	606-151-00-4	201-549-0	84-65-1							
90	azobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
91	BBP; benzyl butyl phthalate				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
92	bis(2-chloroethyl) ether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
93	bis(2-chloroethoxy)methane				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		203-920-2	111-91-1							
94	4-bromophenylphenylether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		202-952-4	101-55-3							
95	carbazole				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-696-0	86-74-8							
96	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							

#	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							
97	2-chloronaphthalene 202-079-9 91-58-7				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
98	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
99	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
100	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9 203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4] 108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
Total:								0.00112 %		

Key

	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: 6--02042024-1.50

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

Sample details

Sample name:	LoW Code:	
6--02042024-1.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 15% 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	confirm TPH has NOT arisen from diesel or petrol				☒					
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				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	pH				7 pH		7 pH	7pH		
			PH							
8	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
9	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
10	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
11	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
12	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
13	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
14	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
15	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
16	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							

#	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							
17	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
18	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
20	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
22	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
24	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
25	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							
26	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
27	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
28	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
29	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
30	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
31	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
32	bromobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
33	bromomethane; methylbromide				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
34	1,2,4-trichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
35	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							
36	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		203-209-7	104-51-8							
37	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]							
38	chlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
39	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
40	chloromethane; methyl chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
41	1,2-dibromoethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
42	dibromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		204-704-0	124-48-1							
43	1,2-dibromo-3-chloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
44	dibromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
45	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							
46	2,2-dichloropropane	209-832-0	594-20-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
47	1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
48	1,3-dichloropropane	205-531-3	142-28-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
49	hexachlorobutadiene	201-765-5	87-68-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
50	cumene	601-024-00-X	202-704-5	98-82-8	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
51	4-isopropyltoluene	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
52	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
53	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
54	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
55	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
56	sec-butylbenzene	205-227-0	135-98-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
57	styrene	601-026-00-0	202-851-5	100-42-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
58	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
59	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
60	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
61	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
62	trichlorofluoromethane	200-892-3	75-69-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
63	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
64	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
65	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
66	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
67	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
68	1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5	<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
69	dibenzofuran	205-071-3	132-64-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
70	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
71	diethyl phthalate	201-550-6	84-66-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
72	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
73	dimethyl phthalate	205-011-6	131-11-3		<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							
74	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
75	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
76	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
77	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
78	2-methyl naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		202-078-3	91-57-6							
79	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
80	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]							
81	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
82	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
83	4-chlorophenylphenylether				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		230-281-7	7005-72-3							
84	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]							
85	2,4,5-trichlorophenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
86	2,4,6-trichlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
87	2,6-dinitrotoluene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
88	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
89	anthraquinone				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	606-151-00-4	201-549-0	84-65-1							
90	azobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
91	BBP; benzyl butyl phthalate				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
92	bis(2-chloroethyl) ether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
93	bis(2-chloroethoxy)methane				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		203-920-2	111-91-1							
94	4-bromophenylphenylether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		202-952-4	101-55-3							
95	carbazole				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-696-0	86-74-8							
96	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							

#		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							
97	●	2-chloronaphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7							
98		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]							
99		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]							
100		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		604-004-00-9	203-577-9 [1]	108-39-4 [1]							
			202-423-8 [2]	95-48-7 [2]							
			203-398-6 [3]	106-44-5 [3]							
			215-293-2 [4]	1319-77-3 [4]							
Total:									0.00077 %		

Key

	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: 6--02042024-2.50

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

Sample details

Sample name:	LoW Code:
6--02042024-2.50	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 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	confirm TPH has NOT arisen from diesel or petrol				☒					
2	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
3	benzene 601-020-00-8 200-753-7 71-43-2				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
4	toluene 601-021-00-3 203-625-9 108-88-3				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
5	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
6	xylene 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]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
7	pH PH				7.8 pH		7.8 pH	7.8 pH		
8	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
9	acenaphthylene 205-917-1 208-96-8				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	acenaphthene 201-469-6 83-32-9				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	fluorene 201-695-5 86-73-7				0.11 mg/kg		0.1 mg/kg	0.00001 %	✓	
12	phenanthrene 201-581-5 85-01-8				0.24 mg/kg		0.218 mg/kg	0.0000218 %	✓	
13	anthracene 204-371-1 120-12-7				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
14	fluoranthene 205-912-4 206-44-0				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	pyrene 204-927-3 129-00-0				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<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							
17	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
18	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
19	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
20	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
21	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
22	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
23	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
24	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
25	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							
26	tetrachloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
27	carbon tetrachloride; tetrachloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
28	trichloroethylene; trichloroethene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
29	vinyl chloride; chloroethylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
30	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
31	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
32	bromobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
33	bromomethane; methylbromide				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
34	1,2,4-trichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
35	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							
36	n-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		203-209-7	104-51-8							
37	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]							
38	chlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
39	chloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
40	chloromethane; methyl chloride				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
41	1,2-dibromoethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
42	dibromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		204-704-0	124-48-1							
43	1,2-dibromo-3-chloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
44	dibromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
45	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							
46	2,2-dichloropropane	209-832-0	594-20-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
47	1,1-dichloropropene	602-031-00-0	209-253-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
48	1,3-dichloropropane	205-531-3	142-28-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
49	hexachlorobutadiene	201-765-5	87-68-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
50	cumene	601-024-00-X	202-704-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
51	4-isopropyltoluene	202-796-7	99-87-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
52	1,3-dichlorobenzene	602-067-00-7	208-792-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
53	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
54	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
55	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
56	sec-butylbenzene	205-227-0	135-98-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
57	styrene	601-026-00-0	202-851-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
58	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
59	bromoform; tribromomethane	602-007-00-X	200-854-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
60	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
61	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
62	trichlorofluoromethane	200-892-3	75-69-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
63	1,1,1,2-tetrachloroethane	602-015-00-3	201-197-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
64	chloroform; trichloromethane	602-006-00-4	200-663-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
65	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
66	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
67	1,2,4-trimethylbenzene	601-043-00-3	202-436-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
68	1,1,2-trichloroethane	602-014-00-8	201-166-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
69	dibenzofuran	205-071-3	132-64-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
70	2,4-dichlorophenol	604-011-00-7	204-429-6		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
71	diethyl phthalate	201-550-6	84-66-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
72	dibutyl phthalate; DBP	607-318-00-4	201-557-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
73	dimethyl phthalate	205-011-6	131-11-3		<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							
74	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
75	2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
76	hexachloroethane	200-666-4	67-72-1		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
77	3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0	78-59-1	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
78	2-methyl naphthalene	202-078-3	91-57-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
79	nitrobenzene	609-003-00-7	202-716-0	98-95-3	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
80	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
81	2-nitrophenol	201-857-5	88-75-5		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
82	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
83	4-chlorophenylphenylether	230-281-7	7005-72-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
84	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
85	2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
86	2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
87	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
88	aniline	612-008-00-7	200-539-3	62-53-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
89	anthraquinone	606-151-00-4	201-549-0	84-65-1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
90	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
91	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
92	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
93	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
94	4-bromophenylphenylether	202-952-4	101-55-3		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
95	carbazole	201-696-0	86-74-8		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
96	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7	<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							
97	2-chloronaphthalene 202-079-9 91-58-7				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
98	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
99	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
100	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9 203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4] 108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
Total:								0.00079 %		

Key

	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: 7--02042024-0.20

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

Sample details

Sample name:	LoW Code:	
7--02042024-0.20	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.4% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 8.4% 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	confirm TPH has NOT arisen from diesel or petrol				☒					
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				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<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				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
7	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				0.57 mg/kg		0.522 mg/kg	0.0000522 %	✓	
		201-581-5	85-01-8							
12	anthracene				0.15 mg/kg		0.137 mg/kg	0.0000137 %	✓	
		204-371-1	120-12-7							
13	fluoranthene				1.6 mg/kg		1.466 mg/kg	0.000147 %	✓	
		205-912-4	206-44-0							
14	pyrene				1.6 mg/kg		1.466 mg/kg	0.000147 %	✓	
		204-927-3	129-00-0							
15	benzo[a]anthracene				0.77 mg/kg		0.705 mg/kg	0.0000705 %	✓	
	601-033-00-9	200-280-6	56-55-3							
16	chrysene				0.79 mg/kg		0.724 mg/kg	0.0000724 %	✓	
	601-048-00-0	205-923-4	218-01-9							

#	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							
17	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.2 mg/kg		1.099 mg/kg	0.00011 %	✓	
18	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.48 mg/kg		0.44 mg/kg	0.000044 %	✓	
19	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.93 mg/kg		0.852 mg/kg	0.0000852 %	✓	
20	indeno[123-cd]pyrene 205-893-2	193-39-5			0.6 mg/kg		0.55 mg/kg	0.000055 %	✓	
21	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[ghi]perylene 205-883-8	191-24-2			0.7 mg/kg		0.641 mg/kg	0.0000641 %	✓	
23	phenol 604-001-00-2	203-632-7	108-95-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
24	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
25	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
26	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
27	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
28	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
29	hexachlorobenzene 602-065-00-6	204-273-9	118-74-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
30	bromodichloromethane 200-856-7	75-27-4			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
31	bromobenzene 602-060-00-9	203-623-8	108-86-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
32	bromomethane; methylbromide 602-002-00-2	200-813-2	74-83-9		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
33	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
34	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
35	n-butylbenzene 203-209-7	104-51-8			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
36	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
37	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
38	chloroethane 602-009-00-0	200-830-5	75-00-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
39	chloromethane; methyl chloride 602-001-00-7	200-817-4	74-87-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
40	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
41	dibromochloromethane 204-704-0	124-48-1			<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
42	1,2-dibromo-3-chloropropane 602-021-00-6	202-479-3	96-12-8		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
43	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
44	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
45	2,2-dichloropropane 209-832-0	594-20-7			<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	1,1-dichloropropene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
47	1,3-dichloropropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-531-3	142-28-9							
48	hexachlorobutadiene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		201-765-5	87-68-3							
49	cumene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
50	4-isopropyltoluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-796-7	99-87-6							
51	1,3-dichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
52	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							
53	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							
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	sec-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		205-227-0	135-98-8							
56	styrene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
57	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-632-4	98-06-6							
58	bromoform; tribromomethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
59	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							
60	1,2,3-trichlorobenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		201-757-1	87-61-6							
61	trichlorofluoromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-892-3	75-69-4							
62	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							
63	chloroform; trichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
64	trans-1,3-dichloropropene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		431-460-4	10061-02-6							
65	1,1,1,2-tetrachloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		211-135-1	630-20-6							
66	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							
67	1,1,2-trichloroethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
68	dibenzofuran				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		205-071-3	132-64-9							
69	2,4-dichlorophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
70	diethyl phthalate				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
		201-550-6	84-66-2							
71	dibutyl phthalate; DBP				19 mg/kg		17.404 mg/kg	0.00174 %	✓	
	607-318-00-4	201-557-4	84-74-2							
72	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
73	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3]	95-65-8 [1] 95-87-4 [2] 105-67-9 [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							
		208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
74	2,4-dinitrotoluene; [1] dinitrotoluene [2] 609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
75	hexachloroethane 200-666-4	67-72-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
76	3,5,5-trimethylcyclohex-2-enone; isophorone 606-012-00-8	201-126-0	78-59-1		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
77	2-methyl naphthalene 202-078-3	91-57-6			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
78	nitrobenzene 609-003-00-7	202-716-0	98-95-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
79	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4] 604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
80	2-nitrophenol 201-857-5	88-75-5			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
81	4-chloroaniline 612-137-00-9	203-401-0	106-47-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
82	4-chlorophenylphenylether 230-281-7	7005-72-3			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
83	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3] 612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
84	2,4,5-trichlorophenol 604-017-00-X	202-467-8	95-95-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
85	2,4,6-trichlorophenol 604-018-00-5	201-795-9	88-06-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
86	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
87	aniline 612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
88	anthraquinone 606-151-00-4	201-549-0	84-65-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
89	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
90	BBP; benzyl butyl phthalate 607-430-00-3	201-622-7	85-68-7		4.4 mg/kg		4.03 mg/kg	0.000403 %	✓	
91	bis(2-chloroethyl) ether 603-029-00-2	203-870-1	111-44-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
92	bis(2-chloroethoxy)methane 203-920-2	111-91-1			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
93	4-bromophenylphenylether 202-952-4	101-55-3			<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
94	carbazole 201-696-0	86-74-8			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
95	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol 604-014-00-3	200-431-6	59-50-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
96	2-chloronaphthalene 202-079-9	91-58-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
97	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							
98		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]								
99		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.5 mg/kg	<0.5 mg/kg	<0.00005 %		<LOD	
	604-004-00-9	203-577-9 [1]	108-39-4 [1]								
		202-423-8 [2]	95-48-7 [2]								
		203-398-6 [3]	106-44-5 [3]								
		215-293-2 [4]	1319-77-3 [4]								
Total:								0.00368 %			

Key

	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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

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

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

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

Description/Comments:

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

Reason for additional Hazards Statement(s):

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

■ **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

▪ **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

▪ **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

▪ **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

▪ **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

■ **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

■ **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

■ **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

■ **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

■ **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

■ **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

■ **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

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

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

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

■ **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

■ **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

▪ **1,1,1,2-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

▪ **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

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; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

▪ **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

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: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

▪ **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

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: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

▪ **hexachloroethane** (EC Number: 200-666-4, CAS Number: 67-72-1)

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: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , STOT RE 2; H373

▪ **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

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

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **2-nitrophenol** (EC Number: 201-857-5, CAS Number: 88-75-5)

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; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

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

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

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. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

▪ **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

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

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

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 Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

■ **2-chloronaphthalene** (EC Number: 202-079-9, CAS Number: 91-58-7)

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: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

beryllium {beryllium oxide}

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

boron {diboron trioxide}

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) Worst 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)

manganese {manganese sulphate}

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 chromate}

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

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

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

vanadium {divanadium pentaoxide; vanadium pentoxide}

worst case

sulfur {sulfur}

worst case

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2024.122.6042.11191 (01 May 2024)

HazWasteOnline Database: 2024.122.6042.11191 (01 May 2024)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GB MCL List - version 1.1 of 09 June 2021

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

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

APPENDIX 6

MONITORING DATA

GROUND GAS AND GROUNDWATER MONITORING

Contract	Turners Hill Road, Crawley Down	Report Ref	24/12836/A/GO		
Date	16/04/2024	Visit	1		
Engineer	JAM	Check	GO		
Weather	Sunny, slightly overcast	Page	1		
Instrument Atmospheric Pressure		Before	996mb		
		After	995mb		
Published Pressure Trend		Falling from 1029mb to 1011mb between 12 to 15 April			
Remarks		Note that published weather forecast atmospheric pressure is 1013mb			

Gatwick Airport
Pressure (hPa): 03.04.2024 - 01.05.2024
© vweatheronline.co.uk

Position	Flow (l/hr)		Common Gases (%)						VOC (ppm)	Groundwater (m)		Remarks	
	High	Low	Time	CO ₂	CH ₄	O ₂				Water	Base		
Calibration Check	0.0	0.0	15s	-0.2	0	20.8							Calibration check passed
			30s	-0.3	0	20.8							
			60s	-0.3	0	20.8							
3	0	0	15s	-0.2	0	20.7			0	0.56	1.60		
			30s	-0.2	0	20.7							
			45s	-0.2	0	20.7							
			1m	-0.2	0	20.7							
			1m 15s	-0.2	0	20.7							
			1m 30s	-0.2	0	20.7							
			1m 45s	-0.2	0	20.7							
			2m	-0.2	0	20.7							
			2m 15s	-0.2	0	20.7							
			2m 30s	-0.2	0	20.7							
			2m 45s	-0.2	0	20.7							
			3m	-0.2	0	20.7							

5	0	0	15s	0.6	0	18.7			0.2	1.14	2.50	
			30s	0.8	0	17.5						
			45s	1.0	0	16.4						
			1m	1.1	0	15.8						
			1m 15s	1.1	0	15.3						
			1m 30s	1.0	0	15.4						
			1m 45s	0.9	0	15.6						
			2m	0.9	0	16.0						
			2m 15s	0.8	0	16.3						
			2m 30s	0.8	0	16.6						
			2m 45s	0.7	0	16.8						
			3m	0.7	0	17.0						

6	0	0	15s	0.7	0	20.2			2.1	0.71	2.70	
			30s	0.7	0	19.9						
			45s	0.7	0	19.8						
			1m	0.7	0	19.8						
			1m 15s	0.7	0	19.8						
			1m 30s	0.7	0	19.8						
			1m 45s	0.7	0	19.8						
			2m	0.7	0	19.8						
			2m 15s	0.7	0	19.8						
			2m 30s	0.7	0	19.8						
			2m 45s	0.7	0	19.8						
			3m	0.7	0	19.8						

Calibration Check	0.0	0.0	15s	-0.2	0	19.9							Calibration check passed
			30s	-0.2	0	20.5							
			60s	-0.3	0	20.6							



GROUND GAS AND GROUNDWATER MONITORING

Contract	Turners Hill Road, Crawley Down					Report Ref	24/12836/A/GO				
Date	03/05/2024					Visit	2				
Engineer	JAM					Check	GO				
Weather	Sunny, slightly overcast					Page	1				
Instrument Atmospheric Pressure			Before			992mb					
			After			992mb					
Published Pressure Trend			Falling from 1015m to 1002mb 29 April to 2 May								
Remarks		Note that published weather forecast atmospheric pressure is 1002mb									

Gatwick Airport
Pressure (hPa): 04.04.2024 - 02.05.2024
© weatheronline.co.uk

Position	Flow (l/hr)		Common Gases (%)						VOC (ppm)	Groundwater (m)		Remarks
	High	Low	Time	CO ₂	CH ₄	O ₂				Water	Base	
Calibration Check	0.0	0.0	15s	-0.2	0	20.9						Calibration check passed
			30s	-0.3	0	20.9						
			60s	-0.3	0	20.9						
3	0	0	15s	-0.2	0	20.7			0	0.49	1.60	
			30s	-0.2	0	20.7						
			45s	-0.2	0	20.8						
			1m	-0.2	0	20.8						
			1m 15s	-0.2	0	20.8						
			1m 30s	-0.2	0	20.8						
			1m 45s	-0.2	0	20.8						
			2m	-0.2	0	20.8						
			2m 15s	-0.2	0	20.8						
			2m 30s	-0.2	0	20.8						
			2m 45s	-0.2	0	20.8						
			3m	-0.2	0	20.8						
			5	0	0	15s	-0.1	0				
30s	-0.2	0				20.6						
45s	-0.2	0				20.7						
1m	-0.2	0				20.7						
1m 15s	-0.2	0				20.7						
1m 30s	-0.2	0				20.7						
1m 45s	-0.2	0				20.7						
2m	-0.2	0				20.7						
2m 15s	-0.2	0				20.7						
2m 30s	-0.2	0				20.7						
2m 45s	-0.2	0				20.7						
3m	-0.2	0				20.7						
6	0	0				15s	0.6	0	20.2			0.2
			30s	0.6	0	19.8						
			45s	0.6	0	19.8						
			1m	0.6	0	19.8						
			1m 15s	0.6	0	19.9						
			1m 30s	0.6	0	19.9						
			1m 45s	0.6	0	19.9						
			2m	0.5	0	20.0						
			2m 15s	0.5	0	20.0						
			2m 30s	0.5	0	20.0						
			2m 45s	0.4	0	20.1						
			3m	0.4	0	20.1						
			Calibration Check	0.0	0.0	15s	-0.2	0	20.9			
30s	-0.3	0				21.0						
60s	-0.3	0				20.9						