Geo-Environmental

SUPPLEMENTARY GROUND INVESTIGATION REPORT

for the land at

LAND SOUTH OF MORTIMERS LANE,

FAIR OAK, HAMPSHIRE,

SO50 7HN.

on behalf of

BLOOR HOMES SOUTHERN

Report:	**SUPPLEMENTARY GROUND INVESTIGATION REPORT**
Site:	**LAND SOUTH OF MORTIMERS LANE, FAIR OAK, HAMPSHIRE, SO50 7HN**
Client:	**BLOOR HOMES SOUTHERN**
Date:	**28/01/2025**
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EXECUTIVE SUMMARY		
Site Details	Site Address	Land South of Mortimers Lane, Fair Oak, Hampshire, SO50 7HN
	National Grid Reference	450686, 118681
	Site Area	11.05Ha (approx.)
	Form of Development	Outline application for up to 245 dwellings (Use Class C3), up to 350sqm multi-functional space, mobility infrastructure (Use Class Sui Generis), with associated open space, landscaping, infrastructure, and vehicular access off Mortimers Lane, Fair Oak; All matters reserved except for vehicular access off Mortimers Lane and pedestrian / cycle connections to the site boundary.
Encountered Conditions	Scope of works	An intrusive investigation was commissioned by the Client to confirm the ground and groundwater conditions and to support the development of geotechnical and geo-environmental assessments pertaining to the site in relation to the proposed development.
	Ground Conditions	The ground conditions encountered within the exploratory holes undertaken were broadly consistent with those anticipated, i.e. a thickness Topsoil overlying London Clay Formation. Soils of the Whitecliff Sand Member were not encountered during the intrusive investigation works undertaken.
	Groundwater	Groundwater was encountered within a number of exploratory holes during the intrusive investigation works and was encountered between depths of 1.70m and 2.60m bgl. Groundwater monitoring wells were installed as part of a previous round of intrusive investigation works undertaken by Geo-Environmental. Winter groundwater monitoring was completed between December 2022 and August 2023 with depths of groundwater encountered between 0.01m and 4.01m bgl prior to any bailing/purging and between 0.05m and 4.15m bgl following recovery after bailing/purging of the wells, with water being recorded at surface level within WS08 and WS10 on two occasions in January and February 2023.
Geotechnical Considerations	Foundations	Based on the ground and groundwater conditions encountered in the exploratory holes, it is considered that conventional shallow foundations may be suitable for the proposed low-rise development subject to considerations of groundwater levels, excavation stability and constructability. The firm to very stiff soils would be a suitable bearing stratum for conventional strip or trench foundations, albeit assuming that groundwater is absent at the proposed founding depth. Soft or soft to firm soils are not suitable as a founding stratum. Due to shallow groundwater being encountered on site during the groundwater monitoring undertaken in 2022/2023, the foundation designer must take account of the constructability of conventional foundations and additional measures which may be required to support excavations and/or control groundwater ingress. On the basis of the results of the Atterberg Limit testing in conjunction with the field observations it is considered that the cohesive soils of the London Clay Formation should be classified 'en-masse' as high volume change potential, as defined by NHBC Standards, Chapter 4.2, for which a minimum founding depth of 1.0m bgl is required. Albeit increased where foundations are located within root zones, desiccated soils or where foundations are proposed in proximity to trees (remaining, removed or proposed). Foundations should be designed in accordance with NHBC Standards Chapter 4.2, and design approaches 4.2B and 4.2C, which incorporate the water demand of trees and the distance of the tree from the nearest portion of foundation. Based on the ground conditions encountered, a preliminary net allowable bearing capacity

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		of 90kPa is recommended for the firm to very stiff clay and soils of the London Clay Formation, this being limited to reflect the variability in the presence of firm clay at or below the anticipated founding depth. Given the variability in consistency and lithology of the soils encountered, it is recommended that reinforcement is included in all foundations.
	Floor Slabs	Given the presence of shrinkable soils, suspended floor slabs are recommended in accordance with NHBC Standards.
	Excavations	Due to the presence of shallow groundwater encountered during the groundwater monitoring in 2022/2023, excavations are likely to be unstable in the short term especially where exposed to water and will therefore need to be shored adequately with appropriate retention systems and dewatering. Conventional sump pumping might not be sufficient to control water within excavations. In the event that excavations become unstable, the sides should either be shuttered or over-excavated to form vertical sides in order to avoid potential adverse heave on foundations at a later date. Long, deep excavations are likely to require some support, particularly if they are to be left open for long periods. The need for entry into excavations should, where possible, be designed out. However, where this cannot be achieved entry of any personnel must only be permitted in accordance with an approved risk assessment, method statement and safe system of work.
	Pavements	Based on the results of testing to date, a preliminary design CBR of 2.0% is recommended for the shallow soils across the site. Further testing may be required at the time of construction. The shallow soils should be assumed to be frost susceptible thus requiring a minimum pavement thickness of 450mm. Any hard or soft spots in the formation level may induce reflective cracking in the pavement and allowance should be made for removing hard or soft spots that may be present.
	Buried Concrete	The results of the water soluble sulphate and pH analyses indicate that buried concrete should be designed in accordance with Class DS-2 of BRE Special Digest 1, with an ACEC class of AC-2.
	Soakaways	Soakage testing was undertaken within 4No. trial pits, TP02, TP23, TP30 and TP39. The water level was observed to have risen within all of the pits over the course of the soakage testing and, as such, all the tests are deemed to have failed. The results of the soakage testing indicate that the use of soakaways within the cohesive London Clay Formation would not be suitable and therefore an alternative drainage solution will need to be considered.
Environmental Considerations	Human Health	All of the results were noted to be below the assessment criteria for a residential with plant uptake end use, therefore no remedial works nor further assessment are considered necessary. In addition, geochemical testing of the shallow soils across the site has not returned any positive identification for asbestos.
	Topsoil	The results of the laboratory analyses indicate that the soils tested were broadly compliant with respect to nutritional suitability based on BS3882 criteria. It is recommended that additional sampling of the Topsoil be undertaken following stripping and storage of the material prior to re-use.
	Ground Gas	A detailed ground gas risk assessment has previously been undertaken for the site

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		(GE21215/GIRv2.1/NOV24). These supplementary intrusive investigation works, soil sampling and laboratory testing did not identify any conditions or the presence of contaminants that would alter or require a revision to the conclusions made within this gas risk assessment.
	Groundwater	No pollutant linkages for groundwater have been identified in relation to the site, it is therefore considered that no risk mitigation measures are required.
	Radon Gas	No radon protection measures are required.
	Built Environment	The results of the relevant chemical analyses were below the specific thresholds, and therefore the use of barrier pipe is unlikely to be a requirement.
	Waste Disposal	The soil analyses from the site, were assessed using HazWasteOnline software. None of the samples assessed were indicated to comprise properties attributable to hazardous waste.
Further Action: • A discovery strategy must be maintained during development such that any abnormal or unexpected conditions (geotechnical or potential contamination) are identified, the discovery strategy should be enacted and their potential impact on the proposed development assessed prior to determining any potential mitigation measures. • The results of the chemical analyses should be sent to the elected potable water supplier for confirmation of the selected water pipe.		
This Executive Summary is intended to provide a brief summary of the main findings and conclusions of the investigation. For detailed information, the reader is referred to the main report ref. GE22375/GIR/JAN25.		

1.0 INTRODUCTION

1.1 General

Geo-Environmental Services Limited (Geo-Environmental) was instructed by Bloor Homes Southern (the Client), to undertake an investigation of the geotechnical and geo-environmental factors pertaining to the proposed development of land at Land South of Mortimers Lane, Fair Oak, Hampshire, SO50 7HN (herein referred to as 'the site'). The site's location is presented in Figure 1.

A Standalone Desk Study Report, reference GE21215/DSRv1.1/NOV24, was previously prepared by Geo-Environmental for the site. Subsequent to the findings of the desk study and preliminary risk assessment, an intrusive Phase II investigation was then undertaken into the ground gas conditions pertaining to the site, Ground Investigation Report, reference GE21215/GIRv2.1/NOV24.

1.2 Form of Development

The development is understood to comprise the outline application for up to 245 dwellings (Use Class C3), up to 350sqm multi-functional space, mobility infrastructure (Use Class Sui Generis), with associated open space, landscaping, infrastructure, and vehicular access off Mortimers Lane, Fair Oak; All matters reserved except for vehicular access off Mortimers Lane and pedestrian / cycle connections to the site boundary.

1.3 Objectives

The investigation was to comprise an intrusive investigation undertaken into the geotechnical and geo-environmental conditions pertaining to the site.

The data from the geotechnical investigation was to form the basis of a preliminary interpretation with respect to foundation design, concrete specification, pavement design and excavation stability.

The objective of the investigation and subsequent assessments was to evaluate the risks posed to the proposed redevelopment, adjacent land uses and the wider environment, in the context of likely planning requirements, immediate liabilities under the Environmental Protection Act 1990 and risks posed to Controlled Waters under the Water Resources Act from the current status of the site and in line with the current redevelopment.

1.4 Standards and References

Where practicable, the ground investigation and subsequent geotechnical and environmental assessments were undertaken in accordance with the following documents and guidance.

- National Planning Policy Framework, updated December 2024;
- Land Contamination Risk Management (LCRM), updated July 2023;
- Model Procedures for the Management of Contaminated Land, CLR11, DEFRA and Environment Agency 2004; (withdrawn)
- Environment Agency Guidance on Requirements for Land Contamination Reports, Version 1 dated July 2005;
- BS10175:2011+A2:2017 - Investigation of Potentially Contaminated Sites - Code of Practice, BSI 2017;
- BS5930:2015+A1:2020 - Code of Practice for Site Investigations, BSI 2020;
- EN ISO 14688 Geotechnical Investigation and Testing Part 1-2002 and Part 2-2004;
- BS1377: 1990 - Soils for Civil Engineering Purposes, BSI1990;
- NHBC Standards Chapter 4.1 Land Quality - Managing Ground Conditions;
- NHBC Standards Chapter 4.2 Building Near Trees;
- CIRIA C665 – Assessing risks posed by hazardous ground gases to buildings (2007);

- NHBC NF94 – Hazardous Ground Gas – an essential guide for housebuilders – April 2023
- BS8485:2015+A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings;
- BRE BR240 Low-rise buildings on shrinkable clay soils: Part 1, 1993;
- BS3882:2015 Specification for topsoil and requirements for use, BSI 2015;
- BS8601:2013 Specification for subsoil and requirements or re-use, BSI 2013.

1.5 Conditions

This report does not purport to be a "Geotechnical Design Report" as defined in Clause 2.8 of Eurocode 7 (Geotechnical Design BS EN 1997-1:2004) and some of the data used to support this preliminary geotechnical assessment may not be fully compliant with that design code. It is considered possible that further detailed ground investigations could be required to facilitate the detailed geotechnical design process and should be carried out on a structure specific basis if necessary.

The desk study data where obtained/reviewed for the site or where presented as part of a previous phase of assessment is assumed to be factually correct and up to date at the point of purchase. No liability is taken for any omissions or inaccuracies in the data presented. It must also be noted that changes to the desk study data may occur following the production of this report, Geo-Environmental accepts no liability where this subsequently affects the assessment presented herein.

The data collected from the investigations have been used to provide an interpretation of the geotechnical and/or environmental conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained. Geo-Environmental takes no responsibility for conditions that either have not been revealed in the available records, or that occur between or under points of physical investigation, or that result from updates to desk based data utilised subsequent to that presented herein or reviewed at the time of writing which may in turn alter the presented assessment. Whilst every effort has been made to interpret the conditions, such information is only indicative and liability cannot be accepted for its accuracy.

It must be noted that the findings and assessment presented herein are based on the ground and groundwater conditions as encountered at the time of investigation within the investigation positions undertaken and any associated testing and monitoring. The ground by its very nature is variable and the engineering properties of soils can vary over time, such as due to changes in soil moisture content, disturbance and similar factors. Similarly, groundwater conditions can and do vary over time. As such, if conditions are encountered which differ from those described herein, the Client or their appointed representative, e.g. contractor, must seek advice from a Geotechnical Engineer at the earliest practicable opportunity. It is possible that this could result in changes to the assessment presented herein.

It should be noted that in particular the concentrations and levels of mobile liquid and gaseous materials are likely to vary with time. The results obtained may therefore only be representative of the conditions at the time of sampling. The absence of asbestos noted during the site walkover or within any soil samples analysed does not guarantee the absence of asbestos within buildings, within or bonded to concrete, as discrete burials, or within the soils mass elsewhere within a site. This report should not be taken as any guarantee that a site is free of hazardous or potentially contaminative materials.

Information contained in this report is intended for the use of the Client and Geo-Environmental can take no responsibility for the use of this information by any party for uses other than that described in this report. Geo-Environmental makes no warranty or representation whatsoever express or implied with respect to the use of this information by any third party. Geo-Environmental does not indemnify the Client or any third parties against any dispute or claim arising from any finding or other result of this investigation report or any consequential losses.

Assessment criteria or other parameters developed for the evaluation of contamination on this site are based on a number of assumptions regarding exposure and toxicology. Exposure to contaminants and levels of adverse effects

may therefore vary. Whilst reasonable care and expertise has been employed in the development of such criteria, no liability is accepted in this respect. Other criteria or guidance on the development of assessment criteria may be published in the future and no liability is accepted in this respect.

This report remains the property of Geo-Environmental and the Client has no rights to, or reliance upon this document or supporting documents until such time as payment has been received in full for all invoices for works undertaken in connection with this report.

2.0 DESK STUDY

A standalone Desk Study Report has previously been produced for the site by Geo-Environmental, ref GE21215/DSRv1.1/NOV24. A summary of the key findings of this desk study are presented in the following sections. For further detail reference should be made to the Desk Study Report.

Photographs taken during the updated site walkover survey in November 2024 are presented in Appendix A. Comments made in the following section regarding possible ground conditions on the site are based purely on the desk study and associated site walkovers.

2.1 Site Description

At the time of the intrusive investigation works, November 2024, the site comprised an irregularly shaped parcel of land centred on NGR 450686, 118681 and extended to c.11.29 hectares.

The site was accessed from the north via a gateway secured with a steel bar gate located off Mortimers Lane. A grassed farm track ran from this access way into the site providing access to the three fields making up the site. The track was laid to grass with track marks and sloped gently upwards at first then sloped away to the south down towards the southern field.

The northern field was roughly square shaped and laid to grass. An access farm track was located to the east of this field. The field sloped gently down to the southwest and was bounded by fencing along all boundaries with mixed hedgerows and trees along the northern, southern and western boundaries.

A small field was located to the south of the northern field, which was laid to grass and was mainly flat and level. The field was fenced along all boundaries with a hedgerow and trees located along the northern and western boundaries.

The southern field made up the majority of the site and was laid to grass. The field sloped away to the south with the lowest point of the site along the southern boundary. This low southern portion of the site was noted to be wet under foot during the intrusive works. A drainage ditch was also noted to be present along this southern boundary located outside of the site. Overhead electrical cables were located in the south-eastern portion of the field running in a northeast to southwest direction. The southern field was bounded by fencing on all boundaries along with hedgerows and trees along the eastern, southern and western boundaries.

The site was bounded by residential properties to the west, Mortimers Lane with fields beyond to the north, agricultural fields to the east and commercial uses (storage yard and data centre) and a former landfill site to the south. This former landfill site was observed to have an active gas extraction system located approximately 60m south of the southern site boundary.

2.2 Geology

British Geological Survey (BGS) geological mapping indicated the geology underlying the site to comprise the bedrock geology of the London Clay Formation across the majority of the site with an outcrop of the Whitecliff Sand Member across the central western portion of the site. In addition, there is a possibility that limited areas of the site, most likely limited to the current track access to the site, may comprise a mantle of Made Ground overlying these natural strata. Made Ground/infilled ground is also understood to be present to the south of the site due to the presence of a former landfill site.

BS5930:2015+A1:2020 defines **Made Ground** as anthropogenic ground in which the material has been placed without engineering control and/or manufactured by man in some way, such as through crushing or washing, or arising from an industrial process. Great variations in material type, thickness and degree of compaction invariably occur and there can be deleterious or harmful matter, as well as potentially methanogenic organic material. In

addition, on sites which have undergone several phases of historic development it is not uncommon for asbestos to be present at surface and within Made Ground and/or disturbed soils.

Within the south Hampshire and Solent region, the **London Clay Formation** consists predominantly of silty clay, sandy clay and silty sand, sporadic claystones occur and thin but persistent bands of rounded flint pebbles occur at the bases of sedimentary cycles. Lenticular bodies of sand such as the **Whitecliff Sand** and Portsmouth Sand fill channels in the upper parts of the formation.

2.3 Hydrogeology

The underlying bedrock strata were classified as a Secondary 'A' aquifer (Whitecliff Sand) and Unproductive Strata (London Clay).

Secondary 'A' aquifers are defined as, permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

Unproductive Strata are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

The site is not shown to be located within a Groundwater Source Protection Zone (SPZ).

The site was identified as being located within an area with limited potential of groundwater flooding to occur. The Whitecliff Sand is considered likely to have a higher permeability than the surrounding strata of the London Clay Formation. It is also possible that infiltrating water could become perched within the Whitecliff Sand and sandier strata where constrained by less permeable strata, such that a single groundwater body within the London Clay Formation is unlikely.

2.4 Hydrology

With reference to the Envirocheck dataset, the closest surface water feature was located 5m east of the site and comprised a pond. The site walkover survey identified a drainage ditch with water running along the southern boundary of the site. Whilst the Envirocheck data indicated the subject site to be located outside the extent of extreme flooding from rivers, it is presumed that a Flood Risk Assessment may be required in order to inform planning and design strategies for the site.

The following discharge consents to controlled waters were identified within a radius of 500m of the site boundary:

- Parsons Construction, Knowle Lane - Sewage Discharge – Final/Treated Effluent – not water company, issued 11/09/2009, revocation date not supplied – 1m SW
- Pembers Hill Farm, Mortimers Lane – Sewage Discharge – Final/Treated Effluent – not water company, issued 20/08/2007, revocation date not supplied – 137m NW
- Pembers Hill Farm, Mortimers Lane – Sewage Discharge – Final/Treated Effluent – not water company, issued 20/08/2007, revocation date not supplied – 150m NW
- East Horton Farm, Mortimers Lane – Sewage Discharge – Final/Treated Effluent – not water company, issued 20/07/1992, revocation date not supplied – 255m S

The desk study data identified the following surface water abstraction points within 500m of the site:

- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/11/2009, authorised end 31/03/2009 – 255m S
- Berrywood Farm, Bubb Lane – Water abstraction for spray irrigation, no authorisation dates provided – 260m S

- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/11/2021, authorised end 31/03/2022 – 262m S
- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/01/2009, authorised end 31/12/2009 – 305m S
- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/01/1999, authorised end 31/12/1999 – 305m S
- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/03/2014, authorised end 31/10/2014 – 402m S

One pollution incident to controlled waters was identified within a radius of 500m of the site boundary:

- East Horton Golf Club – sewage – septic tank effluent, category 3 minor incident, 19/03/1993 – 205m S

It is considered unlikely that the discharge consents or recorded pollution incidents will have ongoing impacts to the site due to the dates of incidents, types of materials discharged, pollutants released and the distance from the site that the incidents occurred.

2.5 Radon

The Envirocheck report states that the site lies in an area where <1% of homes are above the Action Level as defined by Public Health England and the BGS. In addition, the BGS assessment states that no radon protective measures are required in the construction of new houses or extensions on the site.

3.0 PRELIMINARY RISK ASSESSMENT SUMMARY

The Preliminary Risk Assessment (PRA) and Conceptual Site Model (CSM) developed from the information gathered as part of the desk study (ref. GE21215/DSRv1.1/NOV24) process identified plausible potential pollutant linkages that exist in relation to the proposed residential redevelopment of the site. However, the preliminary risk rating for each potential linkage identified ranged from moderate, moderate/low to very low with a moderate risk assigned in relation to ground gases.

The potential pollutant linkages established within the desk study were not considered to prevent development on the subject site but were considered to require investigation and assessment to support further characterisation, calibration of the CSM and where/if necessary, determine a remedial strategy to reduce, remove or otherwise control any risk within the site to key receptors.

In order to progress the assessment in line with best practice guidance and to provide further characterisation of the site and refinement of the PRA and CSM, it was recommended that an intrusive investigation and associated testing was to be undertaken to confirm the findings of the desk study report and to provide a robust risk assessment for the site and proposed redevelopment. As such, it was recommended that a geochemical and geotechnical investigation be carried out on the site to include analysis of soil and groundwater (if encountered) samples for the range of potential contaminants identified within the desk study. A period of ground gas monitoring and associated ground gas risk assessment was also recommended.

3.1 Potential Contamination

The site's previous and current use is as agricultural land, primarily open fields. Elevated concentrations of contaminants of concern could potentially be present within any Made Ground and shallow natural soils underlying the site given the site's agricultural use. Whilst gross contamination is considered unlikely based on the information reviewed, it would be prudent to assume the presence of commonly occurring brownfield contaminants. Potential contaminants could include heavy metals, organic pollutants such as poly-aromatic hydrocarbons (PAH), inorganic compounds, asbestos, pesticides, and fertilisers.

Four former landfill sites are located within 500m of the site, to the south and west. It is understood that leachate management and gas extraction systems are present on one of these landfill sites, Fair Oak Landfill site. The potential for the migration of contaminants from this landfill would be reduced with the presence of these active leachate and gas management systems. However, it is understood that there are no management systems present on the three other landfill sites in close proximity to the site, Knowle Lane, Knowle Hill Lane and Hardings and Scotland Copse. As such, and due to the fact that leachate and gas management systems can be breached and/or turned off, there remains the potential for contaminants associated with these four landfill sites to migrate and impact the subject site. Potential contaminants associated with these landfills include heavy metals, organic pollutants such as poly-aromatic hydrocarbons (PAH), petroleum hydrocarbons/ oils, inorganic compounds, SVOC and VOCs, PCBs.

The risks associated with ground gas and vapours and considered and assessed within the Ground Investigation Report ref GE21215/GIRv2.1/NOV24 and reference should be made to this report. Therefore, only a summary of the ground gas risk is included within this report for completeness.

4.0 GROUND INVESTIGATION

4.1 Scope of Works

The scope of the works undertaken as part of the November 2024 supplementary intrusive investigation works at the site comprised:

- Attendance of a specialist surveyor to undertake a buried utilities clearance survey of the proposed exploratory hole locations using radio-detection and ground penetrating radar techniques.
- Attendance of a Geo-Environmental Engineer to set out and supervise the intrusive investigation, undertake sampling, in-situ testing and logging of recovered soils from exploratory holes.
- The construction of 16No. machine dug trial pits located within the area mapped on BGS mapping as potentially comprising bedrock geology of the Whitecliff Sand Member (TP06-TP09, TP12-TP19, TP21-TP22, TP24 and TP26-TP27).
- The construction of 22No. machine dug trial pits for general site coverage and geotechnical and geo-environmental investigation purposes (TP01-TP05, TP10-TP11, TP20, TP25, TP28-TP29).
- Trial pit soakage testing to be undertaken within 4No. trial pits (TP02, TP23, TP30 and TP39).
- Attendance of a 4x4 water bowser to supply water and crew for trial pit soakage tests. Undertake trial pit soakage tests in general accordance with BRE Digest 365.
- Construction of 1No. cable percussion borehole to a depth of 25m bgl together with in-situ testing and sampling at regular intervals (BH01)
- Geotechnical laboratory testing to support the geotechnical assessment for foundations, ground floor construction and buried concrete design.
- Geochemical laboratory testing for a suite of commonly occurring brownfield contaminants as identified by the desk study for the site.
- Waste categorisation testing in soil samples to aid the assessment of likely waste classification of surplus soils.

4.2 Investigation Strategy

The positioning of exploratory holes was determined on site to provide general coverage and to target specific areas. Table 4.1 sets out the investigation strategy adopted.

Area of Concern	Investigation	Positions
General ground conditions	Exploratory holes located across the site, coupled with sampling and laboratory analysis.	All
Potential contamination of near surface soils	Exploratory holes located to provide coverage of the site, coupled with sampling and laboratory analysis.	All
Permeability of underlying soils	Soakage testing in line with BRE365 within exploratory hole locations located across the site.	TP02, TP23, TP30 and TP39
Geological variation in underlying strata	Trial pits located on a grid pattern in the central western portion of the site, where geological variation was mapped within BGS mapping.	TP06-TP09, TP12-TP19, TP21-TP22, TP24 and TP26-TP27

Table 4.1 Summary of the Investigation Strategy

Soil samples were collected and placed into amber jars and cool boxes on site for transit to the office, where they were stored under chilled conditions (<4°C) prior to final transportation in cool boxes to the laboratory by their in-house courier. Both the geotechnical and contamination testing were undertaken by UKAS accredited laboratories (where appropriate). Contamination testing of soil samples was also undertaken in accordance with accredited MCERTS protocols. Samples were stored in temperature-controlled conditions from sampling until receipt at the laboratory from which time sample preparation and storage was determined by testing requirements and in line with laboratory's protocols.

5.0 ENCOUNTERED CONDITIONS

A factual record of the conditions encountered during the preliminary investigation of the site is presented in the following sections.

For further details of the ground conditions, reference should be made to the exploratory hole logs and in situ testing presented in Appendix B, the geotechnical testing results presented in Appendix C, geochemical testing results presented in Appendix D, and the soakage testing results presented in Appendix E.

The physical ground investigation works were undertaken on from 4th to 12th November 2024.

5.1 Soils

With reference to British Geological Survey (BGS) mapping, the geology of the site was anticipated to comprise a mantle of Topsoil overlying the London Clay Formation. A potential outcrop of Whitecliff Sand Formation was mapped in the central portion of the site.

The ground conditions encountered within the exploratory holes were broadly consistent with those anticipated, i.e. a mantle of Topsoil overlying London Clay Formation, soils characteristic of the Whitecliff Sand Member were not encountered within any of the exploratory holes, despite targeting of positions within the central portion of the site where this stratum was anticipated to be present. It should be noted that although some granular soils were encountered with the exploratory holes, based on composition, they were considered characteristic of the London Clay Formation.

It should also be noted that Geo-Environmental has previously undertaken intrusive investigation works on neighbouring sites to the south and west and therefore has experience of the local Whitecliff Sand Member and its characteristics. In general, the local Whitecliff Sand comprises fine to medium sand either orange, yellow or light grey in colouration. The granular soils encountered on site were not consistent with these previously encountered Whitecliff Sand soils as they included significant cohesive fractions. A generalised summary of the encountered shallow ground conditions is presented in Table 5.1.

Unless stated otherwise, all depths are reported as metres below ground level (m bgl).

Top (m bgl)	Base (m bgl)	Geology	Positions
0	0.10 – 0.25	**TOPSOIL:** Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets.	All
0.10	1.10	**MADE GROUND:** Firm orange and grey very gravelly slightly sandy CLAY with frequent ironstone cobbles (reworked).	TP31
0.10 – 0.25	>25.00	**LONDON CLAY FORMATION (COHESIVE):** Firm to stiff orange and grey mottled CLAY with varying proportions of silt and/or sand. Firm orange brown CLAY with varying proportions of silt and/or sand. Firm to stiff orange and grey mottled slightly gravelly CLAY. Stiff orange and grey CLAY. Firm to stiff grey slightly silty CLAY.	All
0.25 – 2.30	1.70 - >2.60	**LONDON CLAY FORMATION (GRANULAR):** Orange and grey mottled clayey fine SAND. Orange brown very clayey fine SAND with occasional bands of firm orange CLAY.	TP02, TP04, TP19, TP24, TP25, TP28, TP29

Table 5.1 Summary of Ground Conditions

It should be noted that TP14 was not excavated due to the soft ground conditions in the vicinity of this location and the risk of rutting the ground.

Hand penetrometer testing was undertaken in the cohesive soils of the London Clay Formation within the trial pits. These results ranged from 0.9kg/cm^2 to 3.5kg/cm^2 (firm to very stiff).

With the exception of rootlets identified within the Topsoil on site, details of observed roots within the exploratory holes are presented in Table 5.2 below:

Location	Depth (m bgl)	Roots encountered	Geology
TP01	0.70	Occasional rootlets	London Clay Formation
TP02	1.10	Occasional rootlets	
TP03	0.60	Occasional roots and rootlets	
TP04	0.80	Occasional rootlets	
TP05	0.90	Occasional roots and rootlets	
TP06	1.10	Occasional rootlets	
TP07	1.20	Occasional roots and rootlets	
TP08	1.20	Occasional roots and rootlets	
TP09	0.70	Occasional roots and rootlets	
TP10	1.30	Occasional roots and rootlets	
TP11	0.75	Occasional rootlets	
TP11	1.20	Rare rootlets	
TP12	1.70	Occasional roots and rootlets	
TP13	0.75	Rare rootlets	
TP15	1.20	Occasional rootlets	
TP16	0.60	Occasional rootlets	
TP16	1.20	Rare rootlets	
TP17	0.80	Occasional rootlets	
TP18	1.10	Occasional roots and rootlets	
TP19	0.60	Rare rootlets	
TP20	0.60	Occasional roots and rootlets	
TP20	1.20	Rare rootlets	
TP21	1.30	Occasional roots and rootlets	
TP22	0.60	Occasional rootlets	
TP23	0.75	Rare rootlets	
TP24	0.75	Occasional rootlets	
TP25	0.75	Occasional roots and rootlets	
TP26	0.80	Occasional rootlets	
TP27	1.10	Rare rootlets	
TP28	0.80	Occasional rootlets	
TP28	1.20	Rare rootlets	
TP29	0.80	Occasional roots and rootlets	
TP30	0.90	Rare rootlets	
TP32	0.80	Occasional rootlets	
TP33	0.70	Occasional rootlets	
TP34	1.10	Occasional rootlets	
TP35	0.80	Occasional rootlets	
TP36	0.75	Occasional rootlets	
TP37	0.80	Occasional rootlets	
TP38	0.90	Occasional rootlets	

Table 5.2 Roots encountered within the exploratory holes

The exploratory hole logs are presented within Appendix B and the exploratory hole location plan is presented in Figure 3.

5.2 Groundwater

Groundwater was encountered within a number of exploratory holes during the intrusive investigation works as summarised in Table 5.3 below.

Location	Depth (m bgl)	Depth (m AOD)	Comment
TP01	2.60	57.198	Groundwater seepage in base of pit
TP03	2.50	56.251	Groundwater seepage in base of pit
TP04	2.50	55.441	Groundwater seepage in base of pit
TP05	2.40	55.358	Water seepage through sidewall at 2.4m bgl
TP06	2.10	55.942	Steady groundwater seepage in base of pit
TP07	1.70	55.659	Groundwater seepage in base of pit
TP08	2.60	53.892	Groundwater seepage in base of pit
TP09	2.20	53.366	Water seepage through sidewall at 2.2m bgl
TP11	2.50	48.714	Groundwater seepage in base of pit
TP13	2.50	55.33	Groundwater seepage in base of pit
TP15	2.50	53.449	Groundwater seepage in base of pit
TP16	2.50	56.393	Steady groundwater seepage in base of pit
TP17	2.40	55.677	Groundwater seepage in base of pit
TP18	2.50	54.327	Groundwater seepage in base of pit
TP19	2.20	53.786	Water seepage through sidewall at 2.2m bgl
TP20	2.50	52.066	Groundwater seepage in base of pit
TP22	2.20	56.422	Groundwater seepage in base of pit
TP24	2.50	54.022	Groundwater seepage in base of pit
TP25	2.50	53.00	Groundwater seepage in base of pit
TP26	2.00	55.456	Groundwater seepage in base of pit
TP27	1.80	55.666	Water seepage through sidewall at 1.80m bgl and in base of pit
TP28	2.50	53.963	Groundwater seepage in base of pit
TP31	2.30	53.898	Groundwater seepage in base of pit
TP32	2.50	49.805	Groundwater seepage in base of pit
TP33	2.50	46.827	Groundwater seepage in base of pit
TP35	2.50	46.421	Groundwater seepage in base of pit
TP36	2.10	46.096	Water seepage through sidewall at 2.10m bgl
TP37	2.10	46.123	Groundwater seepage in base of pit
TP38	2.50	43.414	Groundwater seepage in base of pit

Table 5.3 Summary of groundwater encountered within trial pits during investigation works (November 2024)

Groundwater was also encountered during the 2022/2023 intrusive investigation works as summarised in Table 5.4 below:

Location	Depth to water (m bgl)	Depth to water (m AOD)
WS01	Struck at 3.00m	44.23
WS02	Struck at 3.80m	46.56
WS03	Struck at 3.00m	51.80
WS08	Struck at 4.00m	50.77
WS11	Struck at 2.00m	Unable to obtain ground level

Table 5.4 Water strike during investigation works (2022/2023)

The groundwater encountered during the intrusive investigation works are assumed to be perched water trapped within the more granular layers of the London Clay Formation. It is possible that groundwater could be present at

differing depths over time, e.g. during or following prolonged wet periods. The presence of groundwater in excavations could influence suitability and buildability of foundations, services and the like. This may mean that conventional foundations are not constructible under some conditions, during winter months and following heavy rainfall. This will require careful consideration throughout the design and construction process.

Groundwater monitoring wells were installed as part of a previous round of intrusive investigation works undertaken by Geo-Environmental. Winter groundwater monitoring was completed between December 2022 and August 2023 with depths of groundwater encountered between 0.01m and 4.01m bgl (40.33m and 59.49m AOD) prior to any bailing/purging and between 0.05m and 4.15m bgl (40.525m and 58.683m AOD) following recovery after bailing/purging of the wells, with water being recorded at surface level within WS08 and WS10 on two occasions in January and February 2023. For further details reference should be made to the Ground Investigation Report ref GE21215-GIRv2.1-NOV24.

It should also be noted that changes in groundwater levels do occur for a number of reasons including seasonal effects and variations in drainage. Such fluctuations may only be recorded by the measurement of the groundwater level within a series of standpipes or piezometers installed within appropriate response zones.

5.3 Obstructions

A clay land drain was encountered within TP34 at 1.1m bgl. The presence of other clay land drains across the site should be expected. In addition, reworked ground containing ironstone cobbles was encountered within TP31 between 0.10m and 1.10m bgl. It is possible that reworked ground of a similar composition may be present elsewhere on the site.

Boreholes WS03, WS05, WS08 and WS10 as part of the 2022 investigation experienced slumping within the encountered clays during construction which meant that the monitoring wells could not be installed to the full 5.00m depth proposed. As such, monitoring wells were installed to depths of between 3.00m and 5.00m bgl across the site.

Overhead electrical cables were located in the south-eastern portion of the site running in a northeast to southwest direction. No boreholes or trial pits were located under, or within 15m of these cables.

5.4 Geotechnical Testing

In-situ Standard Penetration Tests (SPTs) were undertaken within the cable percussive borehole (BH01), these results ranged between uncorrected SPT 'N' values of N=9 to N=48. SPT results are presented on the exploratory hole logs presented in Appendix A and an SPT 'N' Value vs Depth Plot presented within Figure 4.

The results of geotechnical testing undertaken as part of the ground investigation are summarised in Table 5.5 with test results presented in Appendix C.

Parameter		London Clay Formation	Number of tests
Natural Moisture Content (%)		23.2 – 35.7	16
Liquid Limit (%)		43 – 80	
Plastic Limit (%)		19 - 28	
Plasticity Indices (%)		23 – 53	
Modified Plasticity Indices (%)		22 – 53	
Particle Size Distribution Passing 425µm		85 - 100	
Particle Size Distribution (%)	Very Coarse	0	8
	Gravel	0 - 6	
	Sand	34 - 60	
	Silt	17 - 42	
	Clay	15 - 39	

Parameter	London Clay Formation	Number of tests
pH	6.2 – 8.3	8
Water Soluble Sulphate (mg/l)	1.90 – 72.3	8
Acid Soluble Sulphate (%)	0.02 – 0.065	8
Total Sulphur (%)	0.006 – 0.01	8
Total Potential Sulphate (%) *	0.018 – 0.057	8
Oxidisable Sulphides (%) *	-0.008 – 0.025	8
Soaked CBR (%)	1.8 – 2.9	3

NOTE: Modified plasticity index is defined in NHBC Standards Chapter 4.2
* values derived from lab results in accordance with BRE SD1

Table 5.5 Summary of Geotechnical Test Results

The Modified Plasticity Indices showed the cohesive samples of the London Clay Formation to be of Medium to High Volume Change Potential, as defined in BRE and NHBC guidance.

The Partial Size Distribution (PSD) laboratory testing demonstrated that tested soils comprised sands with an appreciable silt and/or clay component. Therefore, granular soils encountered on site included cohesive components.

5.5 Chemical Analysis

In order to assess the general chemical quality of the strata encountered, samples of soils recovered from the exploratory holes were submitted for analysis for a range of potential contaminants selected on the basis of the findings of the desk study report and supported by CLR publication CLR8 and Environment Agency R&D66 publication. The intrusive investigation did not encounter conditions that required a revision of the preliminary risk assessment presented within the desk study for the site.

The testing rationale included sampling and analysis to provide a general coverage of the subject site. Testing was undertaken for a broad range of commonly occurring contaminants including metals, metalloids, inorganic compounds, speciated TPH, PAH and asbestos.

Laboratory Test	Number of samples tested	Geological Unit
Generic Brownfield Suite	8	Topsoil
	1	Made Ground
	10	London Clay Formation
BS3882 Topsoil Suite	4	Topsoil

Table 5.6 Summary of Chemical Laboratory Tests Undertaken by Soil Type

6.0 ENGINEERING CONSIDERATIONS

Subsequent to the intrusive investigation of the site and receipt of the laboratory test results, the following geotechnical assessments have been made.

6.1 Foundations

Based on the ground and groundwater conditions encountered in the exploratory holes, it is considered that conventional foundations may be suitable for low rise structures with foundations terminating within the London Clay Formation. However, due to shallow groundwater being encountered during the 2022/23 groundwater monitoring, the foundation designer must take account of constructability of conventional foundations and additional measures which may be required to support excavations and/or control groundwater ingress into foundation excavations during construction.

On the basis of the results of the Atterberg Limit tests in conjunction with the field observations it is considered that the cohesive soils of the London Clay Formation should be classified *'en-masse'* as high volume change potential, as defined by NHBC Standards, Chapter 4.2, for which a minimum founding depth of 1.00m bgl is required. However, it is also likely that localised deepening of foundations would be required if/where desiccation is present at the time of construction (it should be noted that desiccation is a transient condition) and for foundations constructed within the zone of influence of trees (anticipated as up to c. 20-25m from high water demand trees) and that piled foundations could be required within 5-10m of high water demand trees, or in areas where shallow groundwater has been identified due to the potential for constructability issues.

Foundations which are proposed in proximity to trees (remaining, removed or proposed) should be designed in accordance with NHBC Standards Chapter 4.2, and design approaches 4.2B and 4.2C, which incorporate the water demand of trees and the distance of the tree from the nearest portion of foundation.

SPTs and hand penetrometer results indicated the soils of the London Clay Formation to generally range from firm to very stiff consistency. These firm to very stiff soils would be a suitable bearing stratum for conventional strip or trench foundations, albeit assuming that groundwater is absent at the proposed founding depth. The presence of water within excavations could significantly hinder or potentially prevent construction of conventional foundations. Soft or soft to firm soils are not suitable as a founding stratum.

Based on the ground conditions encountered, a preliminary net allowable bearing capacity of 90kPa is recommended for the firm to very stiff clay soils of the London Clay Formation, this being limited to reflect the variability in the presence of firm clay at or below the anticipated founding depth. Total settlement should remain within tolerable limits for the recommended allowable bearing capacity. Foundations terminating in, on or loading soft clay will not be suitable.

Heave protection measures in accordance with NHBC Standards will be required where foundation depths exceed 1.50m. Preliminary assessment in line with NHBC Standards indicates a minimum thickness of 75mm for any compressible media to the sides of foundations. Foundations should be a minimum 450mm in width.

Given the variability in ground conditions, it is recommended that reinforcement is included in all foundations.

6.2 Piled Foundations

The construction of a piled foundation is a specialist job and the advice of a reputable contractor familiar with the type of ground and groundwater conditions encountered on this site should be sought prior to finalising the design. The actual working load for proposed piles will depend on the particular type of pile and method of installation adopted.

Preliminary load capacities calculated for single, vertically loaded Continuous Flight Auger (CFA) piles are given in

Table 6.1. for BH01. An SPT 'N' Value vs Depth Plot is presented within Figure 4. These values should be used for preliminary purposes only, as the actual working load is dependent on the type of pile and method of installation. Piles should be taken at least five times the pile diameter into the founding strata.

Pile Type	Pile Diameter (m)	Pile Depth (m)	Working Load (kN)
CFA	0.30	6.00	40
		8.00	70
		10.00	100
		14.00	180
		17.00	240
	0.40	6.00	60
		8.00	100
		10.00	150
		14.00	250
		17.00	340
	0.60	6.00	110
		8.00	180
		10.00	260
		14.00	420
		17.00	550

Table 6.1 Preliminary Pile Working Loads BH01

These working loads have been calculated on the basis of the ground and groundwater conditions encountered within the boreholes and assume the following:

- The contribution to the working load on the upper 3.00m has been ignored;
- For the calculation of Safe Working Load, factors of safety of 3 were used on the skin friction and end bearing working loads;
- No allowance has been made for additional forces acting on the pile shaft, such as negative skin friction, loading due to desiccation, heave forces or raising of ground levels.

Settlement of single piles is generally assumed to be less than 10mm where pile diameters do not exceed 600mm. For piles of larger diameter, settlement can become a critical factor.

The bearing values given are applicable to single vertically loaded piles. BRE Research indicates that where groups of piles are to be constructed at 2* pile diameter centre to centre spacing or less, the bearing value of each individual pile should be reduced by a factor of 0.8 and a calculation made to check for the factor of safety against block failure.

The piling contractor should be aware that the borehole was cased during drilling and that water was added to aid the drilling process and thus might have masked water inflows at depths other than those recorded. Any requirement for casing during pile construction will ultimately depend on the method of construction, i.e. casing might be required for a cast in-situ bored pile but not for a driven pile. Continuous Flight Auger (CFA) piles do not generally require casing as the auger supports the pile bore during formation and concreting. The piling contractor should ensure that the piles are constructed satisfactorily and that necking or other damage to the pile shaft does not arise during construction. For further details on the casing and water utilised in the construction of the boreholes reference should be made to the exploratory hole logs presented in Appendix B.

A working platform is likely to be required for the piling plant to traverse and operate on. This should be clarified once piling plant and relevant load cases have been confirmed. The design of a temporary working platform should be undertaken in accordance with BRE Report BR470, or similar good practice guidance. Winter conditions are likely to be worse than summer and it would be prudent to assume winter ground conditions when designing the temporary working platform.

6.3 Floor Slabs

Given the presence of shrinkable soils, suspended floor slabs are recommended. The minimum void height should be determined in accordance with NHBC Standards and account for the volume change potential of the underlying soils.

6.4 Excavations

Due to the presence of shallow groundwater encountered during the 2022/2023 investigation works, excavations are likely to be unstable in the short term especially where exposed to water and will therefore need to be shored adequately with appropriate retention systems and dewatering. Conventional sump pumping might not be sufficient to control water within excavations. As such, it is possible that conventional foundations might not be the best construction solution in terms of mitigating or controlling construction risk, especially if groundwater control has limited or variable effects. Dewatering should only be used with due caution as excessive pumping rates can cause internal erosion of the soil mass, which together with removal of water can result in settlement of the ground and potential adverse impact on adjacent/nearby structures and infrastructure.

There could be potential to consider a summer construction strategy as part of mitigating, to some degree, excavation collapse risk. This would assume relatively drier weather conditions prevail and might not be suitable if prolonged summer rainfall events occur.

In the event that excavations become unstable, the sides should either be shuttered or over-excavated to form vertical sides in order to avoid potential adverse heave on foundations at a later date. Long, deep excavations are likely to require some support, particularly if they are to be left open for long periods.

In addition, contingency allowance should be made for encountering water within excavations and this could require a combination of dewatering/pumping and excavation support.

Ground works should be designed in such a manner to avoid personnel entry into unsupported excavations. Where this cannot be avoided, such entry should only be into supported excavations in accordance with a safe system of work and relevant legislation, e.g. Confined Spaces Regulations.

6.5 Pavements

Remoulded soaked laboratory CBR testing in conjunction with Atterberg Limit testing was undertaken from samples recovered from shallow depth (assumed sub-grade formation level) across the site so as to provide a general coverage. The results of the laboratory testing indicated a remoulded soaked CBR value of between 1.8% and 2.9%.

Therefore, based on the laboratory results and the soils encountered on site, a preliminary equilibrium CBR of 2.0% is recommended for the soils present at the anticipated formation depth.

The shallow soils should be assumed to be frost susceptible thus requiring a minimum pavement thickness of 450mm. Frost susceptibility is based on a Plasticity Index value of <20% where drainage is poor and shallow water is anticipated (as observed with winter waterlogging). Any hard or soft spots in the formation level may induce reflective cracking in the pavement and allowance should be made for removing hard or soft spots that may be present.

In accordance with Hampshire County Council's guidance, geogrid reinforcement would be recommended within the road construction for any road sections which cross areas of previously vegetated ground, i.e. hedgerows, where trees have been felled and the like.

6.6 Sulphates

The results of the water soluble sulphate and pH analyses indicate that buried concrete should be designed in accordance with Class DS-2 of BRE Special Digest 1, with an ACEC class of AC-2. The advice of this publication should be taken for the design and specification of all sub surface concrete.

6.7 Soakaways

Soakage testing was undertaken within 4No. trial pits, TP02, TP23, TP30 and TP39. The soakage testing was undertaken in general accordance with BRE Digest 365 'Soakaway Design'.

The water level was observed to have risen within all of the pits over the course of the soakage testing and, as such, all the tests are deemed to have failed.

The results of the soakage testing indicate that the use of soakaways within the cohesive London Clay Formation would not be suitable and therefore an alternative drainage solution will need to be considered. The results from the soakage testing are presented within Appendix E.

In addition, groundwater levels encountered during the groundwater monitoring undertaken in 2022/23 have shown that groundwater is present at shallow depth beneath the site. As such, the use of soakaways at the site is likely to be of limited effectiveness on the site due to the limited unsaturated zone encountered at the site. On-site storage and attenuation, or alternative storm water disposal options should be considered. Storage such as crates, swales and basins must be assumed only to have a detention capability, i.e. infiltration is likely to be negligible and should not be relied upon.

Changes in groundwater levels, such as shallower groundwater during winter months, could reduce storage capacity and performance of soakaways. This might also adversely impact the ability of any ponds to drain via infiltration to the ground and thus attenuated discharge to ditches and surface water may be more appropriate under extension of existing riparian rights.

7.0 ENVIRONMENTAL CONSIDERATIONS

A Generic Quantitative Risk Assessment (GQRA) has been undertaken incorporating the results of the previous standalone desk study and ground investigation (all undertaken by Geo-Environemental), the findings of which are presented in the following sections.

Site workers involved in the preparation and construction of the development have not been considered further in this assessment as the Principal Contractor is duty bound under the current CDM Regulations to undertake their own risk assessments with respect to their employees.

7.1 Outline Risk Assessment

Soil samples were also collected from across the site and included analysis of Topsoil and natural soils. The samples were submitted for analysis for a suite of commonly occurring contaminants including metals, metalloids, inorganic compounds, speciated TPH, PAH and asbestos.

The intrusive investigation did not encounter conditions that required a revision of the preliminary risk assessment presented within the desk study for the site.

7.2 Ground Gas vs. End Users

A detailed ground gas risk assessment pertaining to the site was undertaken with the Ground Investigation Report ref GE21215/GIRv2.1/NOV24.

These supplementary intrusive investigation works, soil sampling and laboratory testing did not identify any conditions or the presence of contaminants that would alter or require a revision to the conclusions presented within this gas risk assessment.

Therefore, the following conclusion from the ground gas risk assessment, with respect to ground gas and end users is considered relevant.

Based on the gas risk assessment undertaken by Geo-Environmental the site's gassing regime, based on both hazardous gas flow and limiting concentrations and the above risk assessment, is classified as Characteristic Situation 1 (CIRIA and BS) and Green (NHBC), for which gas protection measures would not be required.

7.3 Soil Contamination vs. End Users

The presence of a possible contaminant does not necessarily imply that a site or area is contaminated or that there is any unacceptable risk to human health. A Preliminary Quantitative Risk Assessment has been undertaken in order to evaluate any unacceptable risks posed to human health with respect to the proposed redevelopment. It should be noted that this assessment is protective of the chronic long-term effects of contaminants, which is also likely to be protective of any possible immediate acute effects.

A quantitative risk assessment has been undertaken by comparing the results of the laboratory chemical testing of shallow soils against the ATRISKSOIL Soil Screening Values (SSVs) derived by Atkins, or against the Suitable for Use Levels (S4ULs) published by LQM (Copyright Land Quality Management Limited reproduced with permission, Publication Number S4UL3453. All rights Reserved) and Category 4 Screening Levels (C4SLs) published by DEFRA for the proposed end use. Although the C4SLs were released for Part 2A use, the associated policy companion document for the C4SLs indicated that they may also be used for planning. Although the C4SLs represent a marginally higher risk level than the SSACs (low risk rather than minimal risk) it is considered that the risk levels remain very low. Therefore, the final C4SLs are considered to be suitable to assess soils under the planning regime.

In the first instance the results of the sample analysis were compared to the Tier 1 screening criteria, for a residential

with plant uptake use, where available. All of the results were noted to be below the respective assessment criteria, therefore no remedial works nor further assessment are considered necessary.

In addition, samples submitted for laboratory testing were also screened for asbestos. Geochemical testing of the shallow soils across the site has not returned any positive identification for asbestos. Nonetheless, the absence of asbestos in samples analysed does not mean that asbestos might not be present at locations remote from exploratory holes.

7.4 Topsoil Assessment

An assessment was also undertaken on the suitability of the Topsoil encountered onsite to re-use within areas of proposed soft landscaping and private gardens.

The nutritional suitability of the sampled soils has been assessed by reference to BS3882:2015. BS3882 has been referred to as good practice guidance rather than there being a specific requirement to comply with BS3882. A summary of the results is presented below. Where the results are not in accordance with the British Standards this has been highlighted below.

- The recommended concentration range of potassium is 121-1500mg/l. All the samples were noted to be within the range of 48.30mg/l – 86.20mg/l. As such nutrient addition may be required with respect to potassium within the soils prior to use as Topsoil. All four of the samples tested within TP03, TP18, TP33 and TP36 were below the recommended range.

The results of all other nutrients tested; nitrogen, phosphate and magnesium were shown to be compliant with a multipurpose Topsoil.

The stone content of the soils sampled was also assessed in line with BS3882 with the stone content of >2mm, >20mm and >50m all recorded to be compliant.

The average result for Loss on Ignition for the Topsoil was recorded at 4.55% which was noted to be within the acceptable range for a multipurpose Topsoil.

The results of the laboratory analyses indicate that the soils tested were, for most of the criteria, on average, compliant with respect to nutritional suitability. It is recommended that additional sampling of the Topsoil be undertaken following stripping and storage of the material prior to re-use to identify any changes in chemical and physical compositions that may result of any prolonged period of stockpiling on site.

Whilst general garden soil contains nutrients, three major nutrients often require rebalancing or topping up: nitrogen, in a form such as nitrate; phosphorus, as soluble phosphate; and potassium, in the form of potash. These are often referred to as ‘NPK’ or, more correctly, as N:P2O:K2O (nitrogen, phosphate and potassium), because the ratio between them is as important as the absolute amounts. These major nutrients can be found in natural products such as garden compost and animal manures, or they can be man-made fertilisers. As such, further sampling following any period of stockpiling and closer to the proposed date of placement should be undertaken in order to assess the concentrations of these nutrients so this can be corrected where required prior to or following the re-use of the materials on-site.

Should further Topsoil need to be imported onto site, for use within to private gardens and soft landscaped areas of the site, prior to importation, the chemical, physical and nutritional suitability should be verified. Importation of topsoil or subsoil from unverified or unsuitable sources would require their removal from site and replacement with suitable materials. As a matter of good practice, it is recommended that the location, approximate extent and thickness of any imported topsoil are recorded and presented in the Validation/Verification Report to be prepared by the Environmental Consultant.

7.5 Soil Contamination vs. Adjacent land Users

Surrounding land uses were identified to comprise residential properties to the west of the site and primarily agricultural uses to the north and west with a landfill site to the south. On the basis of the testing undertaken to date, it is considered that no significant risks to adjacent land users exist.

However, short term risks to adjacent land users may arise in relation to the generation of soil derived dust and particles as fugitive emissions from the site during the construction phase. Therefore, it is recommended that dust suppression techniques, e.g. damping down exposed soils, are employed during the ground works and construction phases on site in order to minimise and manage potential nuisance issues for adjacent land users.

7.6 Soil Contamination vs. Soft Landscaping

British Standard BS3882:2015 *Specification for topsoil and requirements for use* provides assessment criteria for a number of potentially phytotoxic contaminants in terms of new planting.

The results of the chemical analysis for determinands known to pose a potential phytotoxic risk to plant growth are summarised in Table 7.1, together with the respective adopted Generic Assessment Criteria (GAC) for plant growth. The compliance criteria set out in BS3882:2015 are pH dependent and thus the GAC used relate to the pH range measured on samples recovered from the site.

Determinand	Phytotoxicity GAC (mg/kg)			GAC Exceedances
	pH <6.0	pH 6.0-7.0	pH >7.0	
Zinc	200	200	300	No
Copper	100	135	200	No
Nickel	60	75	110	No

Table 7.1 Summary of Plant Phytotoxicity Assessment

The phytotoxicity assessment did not identified any exceedances of the phytotoxicity criteria. As such it is considered that no specific measures are required in this respect.

7.7 Soil Contamination vs. Built Environment

Recommendations with respect to pH and sulphate in relation to buried concrete are made in Section 6.6.

The current guidance on the selection of materials for water supply pipes to be laid in contaminated land is contained in UK Water Industry Research's (UKWIR) report reference 10/WM/03/21 (re-issued 2010). However, the guidance is not mandatory and there has been concerns raised by various industry technical associations regarding the document and the methodologies proposed. Although there are concerns regarding the document, in lieu of any further guidance in the first instance the results of this investigation have been compared with the proposed thresholds published in UKWIR Table 3.1.

The results of the relevant chemical analyses indicate that all results were below the specific thresholds, and therefore the use of barrier pipe is unlikely to be a requirement. It is therefore recommended that the results of this investigation be presented to the water utility company as soon as reasonably practicable in order to confirm the pipe material.

As a matter of good practice and to maximise the protection to maintenance workers, it is recommended that clean, granular backfill is used in service runs and that marker tapes are used for all buried services.

7.8 Soil Contamination vs. Groundwater

The investigation did not identify any mobile contamination and thus in the absence of a pollutant linkage, no further action is warranted.

7.9 Groundwater vs Human Health

The desk study did not identify any potential sources of highly mobile contamination on the site and the intrusive investigation works have not identified any mobile contamination within the soils analysed on the site.

Due diligence and a watching brief should be undertaken as a part of the site clearance/demolition and development works and if any currently unidentified potential sources of mobile contamination are identified these should then be further assessed in line with the discovery strategy for the site.

End users are unlikely to come in to contact with groundwater and thus in the absence of a plausible pollutant linkage between groundwater and end-users, no specific protection measures are considered likely to be required in this respect.

7.10 Groundwater vs Soft Landscaping

Encountered groundwater levels are considered to be located within the root zone of influence for the soft landscaping on the site. However, soil analysis has not identified elevated contaminant concentrations, such that could have resulted in contaminants being mobilised to the groundwater and the vegetation on and around the site showed no evidence of stress. As such, it is considered that no specific action is warranted with respect to soft landscaping.

7.11 Groundwater vs Built Environment

Protection measures for the Built Environment as discussed in Section 7.7 are considered appropriate.

7.12 Groundwater vs Controlled Waters

In the absence of any evidence of mobile contamination and elevated contaminants within soils on site it is considered that no action is required in terms of risks to control waters.

However, should dewatering be required as part of the proposed development then water pumped out will need to be disposed of under the appropriate duty of care and should not be discharge to any watercourses or ditches without an appropriate permission, sediment control measures and any other limitations or regulatory/statutory requirements being met prior to discharge.

7.13 Update Conceptual Site Model

Intrusive investigation and subsequent generic quantitative risk assessments have been undertaken to provide a general coverage of the site in relation to the proposed purchase of the site. These assessments are considered sufficient to suitably refine the risks identified in the preliminary Conceptual Site Model.

Following the assessments detailed above the Conceptual Site Model has been updated as summarised in Table 7.2.

Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
Contaminants of Concern **(Made Ground and Shallow Soils)**	End users	Direct contact	Unlikely	Mild	**Very Low** End users could come into contact with soils via direct contact as the development will include private gardens and soft landscaping. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Soft Landscaping	Root Uptake	Unlikely	Mild	**Very Low** The proposed development is likely to include areas of private gardens and soft landscaping. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Adjacent land users	Direct or indirect contact	Unlikely	Mild	**Very Low** Adjacent site users are unlikely to come into contact with soils. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Water supply pipes	Direct contact	Unlikely	Mild	**Very Low** Water supply pipes could come into contact with impacted soils depending upon depth of installation. Sampling and laboratory testing did not identify the presence of contaminants that would warrant the installation of specific specialist water pipes. However, this should be confirmed with the water utility provider.
	Buildings and infrastructure	Direct contact	Likely	Mild	**Moderate/Low** Foundations and utilities will be placed within potentially aggressive soils (e.g. sulphate). Sampling and laboratory testing demonstrated that buried concrete should be designed in line with DS2 and AC2.
	Groundwater	Vertical migration	Unlikely	Medium	**Low** The proximity of nearby streams and drainage ditches indicates that shallow water (<5m bgl) could be present albeit possibly discontinuous/associated with more permeable strata. The strata beneath the site are classified as a Secondary 'A' Aquifer and Unproductive Strata. Fluctuations in groundwater levels are likely and could result in migration of mobile contaminants. Sampling and laboratory testing did not identify the presence of mobile contaminants.

Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
	Surface Water	Lateral Migration	Unlikely	Mild	**Very Low** A drainage ditch runs along the southern boundary of the site. As such where contaminants are identified within the shallow soils on the site, leaching and lateral migration of the contaminants may occur. Sampling and laboratory testing did not identify the presence of mobile contaminants.
Off-Site Potential Sources (Landfills)	End users	Direct contact	Unlikely	Medium	**Very Low** End users are likely to come into contact with soils via direct contact as the development will include soft landscaping and garden areas. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria for the proposed land use.
	Soft Landscaping	Root Uptake	Unlikely	Mild	**Very Low** Soft landscaping and private gardens are proposed. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria for the proposed land use.
	Adjacent land users	Direct or indirect contact	Unlikely	Mild	**Very Low** Adjacent site users are unlikely to come into contact with soils. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria for the proposed land use.
	Water supply pipes	Direct contact	Unlikely	Mild	**Very Low** Water supply pipes could come into contact with impacted soils depending upon depth of installation. Sampling and laboratory testing did not identify the presence of contaminants that would warrant the installation of specific specialist water pipes. However, this should be confirmed with the water utility provider.
	Buildings and infrastructure	Direct contact	Likely	Mild	**Moderate/Low** Foundations and utilities will be placed within potentially aggressive soils (e.g. sulphate). Sampling and laboratory testing demonstrated that buried concrete should be designed in line with DS2 and AC2.

Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
	Groundwater	Vertical migration	Unlikely	Medium	**Low** The proximity of a nearby drainage ditch indicates that shallow water (<5m bgl) could be present albeit possibly discontinuous/associated with more permeable strata. The strata beneath the site are classified as a Secondary 'A' Aquifer and Unproductive Strata. Fluctuations in groundwater levels are likely and could result in migration of mobile contaminants. Sampling and laboratory testing did not identify the presence of mobile contaminants.
	Surface Water	Lateral Migration	Unlikely	Mild	**Very Low** A drainage ditch runs along the southern boundary of the site adjacent to Fair Oak Landfill site which has an active leachate extraction system. Sampling and laboratory testing did not identify the presence of mobile contaminants.
Ground Gases and Vapours	End users	Inhalation	Unlikely	Medium	**Low** Ingress of hazardous ground gas into buildings in proximity to any landfilled area or ground gas/vapour source could occur and could result in significant harm where ground gases are identified on site. Onsite gas monitoring and a detailed gas risk assessment has classified the sites gassing regime as CS1 for which gas protection measures are not deemed necessary.
	Soft Landscaping	Root Uptake	Unlikely	Mild	**Very Low** Private gardens and soft landscaping are proposed. No evidence of harm to existing plants. Onsite gas monitoring and a detailed gas risk assessment has classified the sites gassing regime as CS1 for which gas protection measures are not deemed necessary.
	Adjacent land users	Inhalation	Unlikely	Medium	**Very Low** It is considered to be unlikely that adjacent land users will come into contact with ground gases and vapours originating on site. Onsite gas monitoring and a detailed gas risk assessment has classified the sites gassing regime as CS1 for which gas protection measures are not deemed necessary.

Table 7.2 Updated Conceptual Site Model

7.14 Waste Disposal

The soil analyses from the site were assessed using HazWasteOnline software. None of the samples assessed were indicated to comprise properties attributable to hazardous waste. The HazWasteOnline results are included within Appendix F.

Natural soils at the site are considered likely be classified as Inert Waste (under the respective EWC codes), suitable for disposal at an inert landfill facility, where they are free for asbestos or mobile contaminants. Any soils identified as containing asbestos or mobile contaminants e.g. hydrocarbon may be classified as Hazardous waste.

It must be noted that any waste classification assessment is indicative only and actual classification would depend on permit status of the final disposal facility. Once soils for disposal have been identified it is recommended that further testing of these specific soils be undertaken in order to confirm the above assessment.

In accordance with the CL:AIRE Definition of Waste Code of Practice (2011) materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded by the holder'.

The Code of Practice therefore allows soils to be reused on site where the following criteria are met:

- The re-use of the soils will not present an unacceptable or increased risk to controlled waters, the environment and human health;
- The soils are suitable both in terms of chemical and geotechnical properties for the intended use without prior treatment;
- Only the required volume is used and no more;
- There is a required use and a certainty of use not just a possibility.

In order to comply with the Code of Practice, a Materials Management Plan (MMP) that confirms the above criteria are met must be prepared. Where a remediation strategy is in place for the site, this must be agreed by the regulators to support the res-use of the MMP. The MMP must be reviewed by a 'Qualified Person' who then issues a declaration to the Environment Agency. The MMP and declaration must be in place before soils are excavated and it cannot be applied retrospectively. Geo-Environmental can provide this service should it be required.

Where materials do not meet the required criteria, it may be possible to treat them under an environmental permit so that they may be re-used on site. In addition, where material is discarded as waste, it may still be possible to reuse the waste on site under a standard rules environmental permit or a U1 waste exemption. However, strict limits on the volumes that can be reused apply in these cases.

Under current legislation, where wastes are to be disposed of to landfill, they may, depending on their classification, require pre-treatment. Pre-treatment shall comprise a chemical, physical (including sorting), thermal or biological process. The pre-treatment is required to change the characteristics of the waste, reduce its volume, reduce its hazardous nature, and facilitate its handling and enhance its recovery.

Other materials disposed of from site as part of the development of the site may require disposal separately. All materials containing dangerous substances e.g. tar or bitumen, asbestos, mercury, hydrocarbons, PCBs and asbestos are likely to be classified as Hazardous Waste and therefore susceptible to the relevant legislative controls.

8.0 DISCOVERY STRATEGY

Whilst an intrusive investigation has been undertaken on the site, it remains possible that unexpected ground and/or groundwater conditions may be encountered during the process of construction.

Should previously undiscovered contamination or unforeseen ground conditions be encountered during construction by the ground workers, this must be reported to the Site Manager immediately in order that the Consultant is notified.

Where deemed necessary, the Consultant shall attend the site to inspect the discovery and provide recommendations on the further actions required, if any. Where necessary the regulatory authority shall be informed. Post any additional investigation or laboratory testing the results and any proposed remedial measures shall be reported to the regulatory authority or other appropriate organisation for consent, before proceeding or implementing the remedial measures.

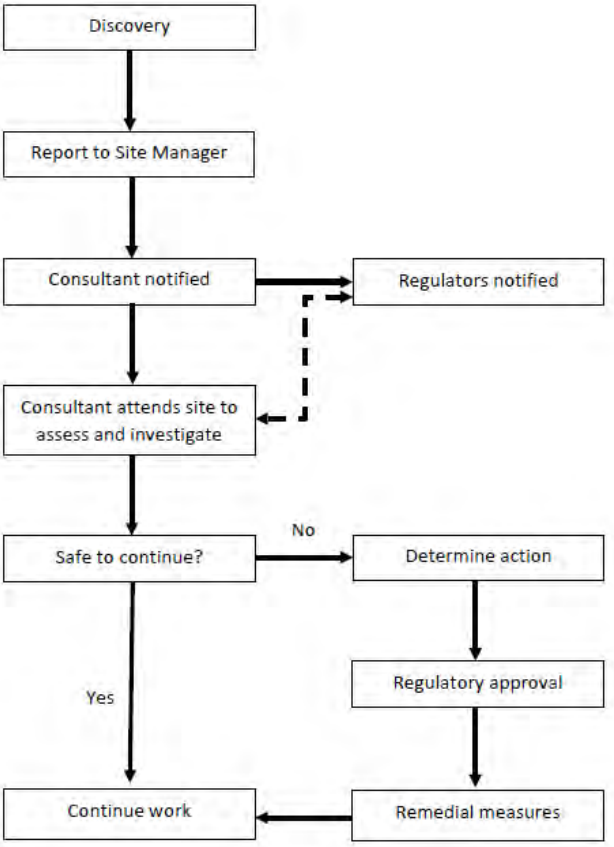
A copy of the discovery strategy must be lodged on site, and provisions made to ensure that all workers are made aware of their responsibility to observe, report, and act on any potentially suspicious, abnormal, unforeseen or contaminated ground and/or groundwater conditions they may encounter.

Depending on the type, nature and extent of any such 'discovery', it may be necessary to halt works in that location until such time as the assessment has been completed. This shall be reviewed on a 'discovery' specific basis and in conjunction with consultation with the client, other technical personnel and/or regulatory/approval organisations.

As a general guide, where such unexpected conditions are encountered the following approach is required as a minimum:

- All discoveries are to be reported to the Site Manager immediately and works at that location are to halt until further notice;
- The Site Manager is to report any such discoveries to the Client and the Consultant;
- Following notification from the Site Manager, the Consultant shall discuss the discovery with the Local Authority and/or other relevant parties and if considered necessary, arrange to meet on site to view the discovery;
- The Consultant shall attend the site to record the location, extent and nature of the discovery and implement an appropriate sampling and analysis regime, taking due account of the type and nature of the discovery, known and probable land uses in that area of the site;
- Where remedial action is required, regulatory consultation and approval will be sought;
- A record will be produced by the Consultant and held on site (with copies held by the Consultant, Client and Local Authority/other relevant organisation), detailing the discovery, assessment works undertaken, findings thereof, confirmation either of no action required or detailing the remedial action taken and validation thereof.

The process is summarised overleaf:



Discovery Strategy Process

FIGURES





Project:	Land South of Mortimers Lane, Fair Oak			**Title**	Site Location Plan
Client:	Bloor Homes Southern			**Geo-Environmental Services Ltd** **Unit 7 Danworth Farm, Cuckfield Road** **Hurstpierpoint, West Sussex BN6 9GL** **+44(0)1273 832972 www.gesl.net**	Geo-Environmental
Ref No:	GE22375	**Revision:**	0		
Drawn:	FG	**Date:**	19/06/2024		
Figure:	1	**Scale:**	Not To Scale		



Project:	Land South of Mortimers Lane, Fair Oak			**Title**	Proposed Development Masterplan
Client:	Bloor Homes			**Geo-Environmental Services Ltd** **Unit 7 Danworth Farm, Cuckfield Road** **Hurstpierpoint, West Sussex BN6 9GL** **+44(0)1273 832972 www.gesl.net**	Geo-Environmental
Ref No:	GE22375	**Revision:**	0		
Drawn:	FG	**Date:**	28/01/2025		
Figure:	2	**Scale:**	Not To Scale		



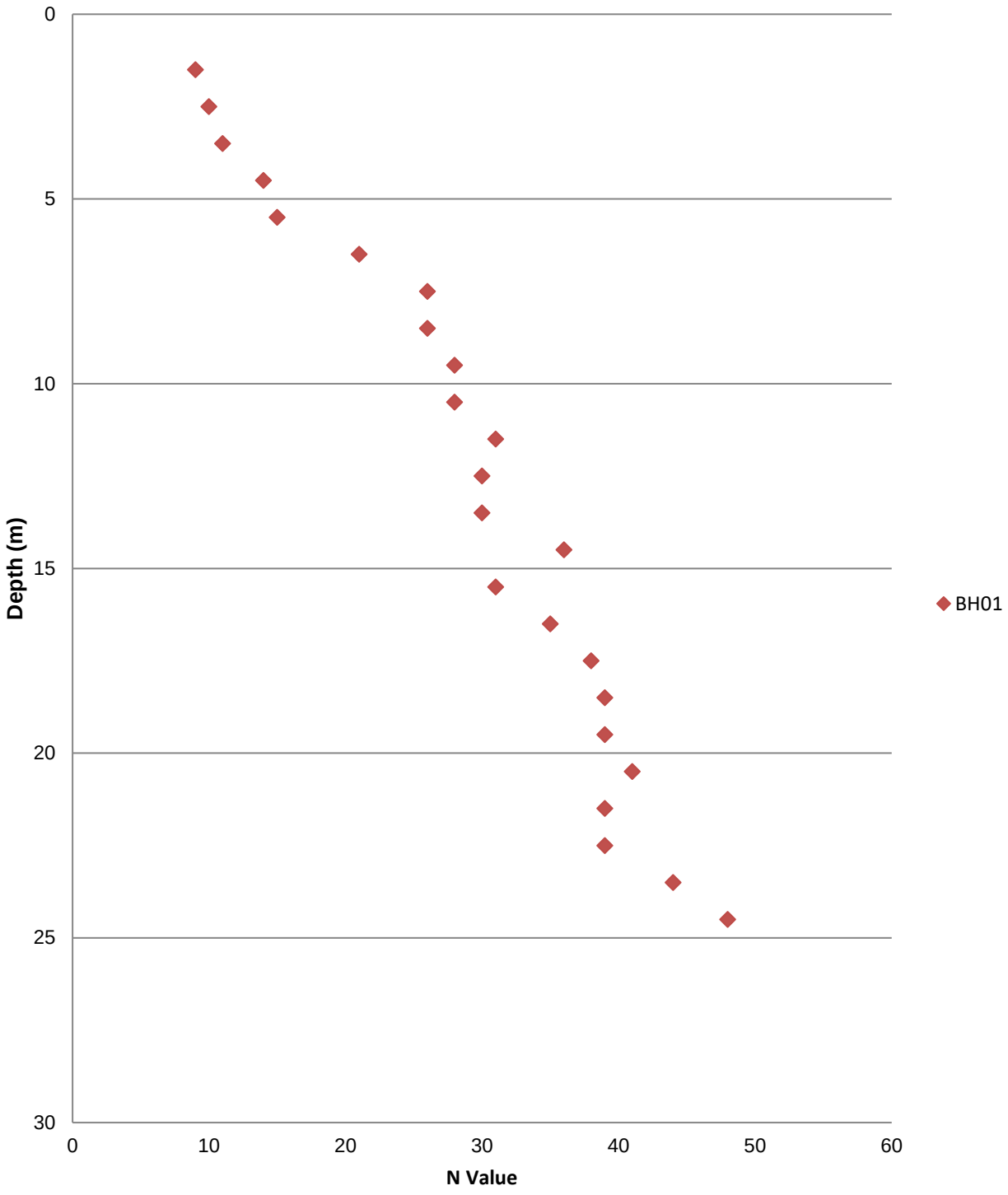
Project:	Land South of Mortimers Lane			**Title**	Exploratory Hole Locations - Window Sampler Borehole
Client:	Bloor Homes Southern			**Geo-Environmental Services Ltd** **Unit 7 Danworth Farm, Cuckfield Road** **Hurstpierpoint, West Sussex BN6 9GL** **+44(0)1273 832972 www.gesl.net**	Geo-Environmental
Ref No:	GE22375	**Revision:**	0		
Drawn:	FG	**Date:**	20/12/2022		
Figure:	3a	**Scale:**	Not To Scale		



Project:	Land South of Mortimers Lane, Fair Oak			**Title**	Exploratory Hole Location Plan - Trial Pits and Cable Percussive Borehole
Client:	Bloor Homes Southern			**Geo-Environmental Services Ltd** **Unit 7 Danworth Farm, Cuckfield Road** **Hurstpierpoint, West Sussex BN6 9GL** **+44(0)1273 832972 www.gesl.net**	Geo-Environmental
Ref No:	GE22375	**Revision:**	0		
Drawn:	FG	**Date:**	20/11/2024		
Figure:	3b	**Scale:**	Not To Scale		

Geo-Environmental Services Limited www.gesl.net +44 (0)1273 832 972	# SPT N Value Vs Depth

Project ID: **GE22375**		Project Title:	Land South of Mortimers Lane
Client: **Bloor Homes Southern**		Location:	Fair Oak



Date Reported: **28/01/2025**

APPENDIX A

Site Photographs



Plate 1 View southeast across the site



Plate 2 View south across the site



Plate 3 View west across the central portion of the site



Plate 4 View of access track running into the central portion of the site



Plate 5 View south across the site



Plate 6 View southeast across the site



Plate 7 View southwest across the site



Plate 8 View west across the site



Plate 9 View south across the site



Plate 10 View south across the site



Plate 11 View north east towards the north eastern corner of the site



Plate 12 View northwest across the site



Plate 13 View of overhead cables running across the site



Plate 14 View south towards southern boundary



Plate 15 View northwest across the site



Plate 16 View west towards western boundary



Plate 17 View east along northern field boundary



Plate 18 View north west across northern field



Plate 19 View north east across northern field

Geo-Environmental

APPENDIX B

Exploratory Hole Logs & In-situ Test Results



Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **WS01** Sheet 1 of 1

Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450549E - 118583N	Hole Type WLS
Location:	Fair Oak		Level: 47.23	Scale 1:25
Client:	Bloor Homes Southern		Dates: 16/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	46.98		Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL	
					0.80	46.43		Soft to firm orange and grey mottled sandy CLAY with frequent roots and rootlets LONDON CLAY	
		1.00	PP	1.0kg/cm2	1.10	46.13		Firm orange and grey mottled sandy CLAY with frequent rootlets LONDON CLAY	1
					1.70	45.53		Soft to firm orange and grey mottled very sandy CLAY. Sand is fine LONDON CLAY	
		2.00	PP	2.1kg/cm2	2.10	45.13		Firm to stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY	2
		2.50	PP	2.5kg/cm2				Stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY	
▼		3.00	PP	2.0kg/cm2	3.10	44.13		Stiff dark grey slightly sandy CLAY. Sand is fine LONDON CLAY	3
		3.50	PP	2.5kg/cm2					
		4.00	PP	1.5kg/cm2					4
		4.10	ES						
		4.50	PP	2.7kg/cm2					
		5.00	PP	2.1kg/cm2	5.00	42.23		End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		**Remarks**
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
			3.00	3.00	

AGS

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **WS02** Sheet 1 of 1

Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450542E - 118633N	Hole Type WLS
Location:	Fair Oak		Level: 50.37	Scale 1:25
Client:	Bloor Homes Southern		Dates: 16/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	50.12		Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL	
		0.50	PP	1.3kg/cm2				Firm orange and grey mottled CLAY with frequent roots and rootlets LONDON CLAY	
					0.80	49.57		Firm orange and grey mottled CLAY with occasional rootlets LONDON CLAY	1
		1.00	PP	1.0kg/cm2					
					1.30	49.07		Firm orange and grey mottled CLAY with rare flint gravel LONDON CLAY	
		1.50	PP	1.3kg/cm2					
		1.60	ES						
		2.00	PP	1.5kg/cm2					2
					2.10	48.27		Stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY	
		2.50	PP	2.5kg/cm2					
		3.00	PP	3.2kg/cm2					3
					3.30	47.07		Dark grey slightly clayey silty fine SAND LONDON CLAY	
	▼								
					3.90	46.47		Stiff dark grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		4.00	PP	1.8kg/cm2					4
		4.50	PP	2.4kg/cm2					
		5.00	PP	2.5kg/cm2	5.00	45.37		End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		**Remarks**
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
			3.80	3.80	

AGS

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **WS03** Sheet 1 of 1

Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450554E - 118711N	Hole Type WLS
Location:	Fair Oak		Level: 54.81	Scale 1:25
Client:	Bloor Homes Southern		Dates: 15/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.20	54.61		Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL
		0.50	PP	1.4kg/cm2				Firm orange brown slightly sandy CLAY with occasional rootlets. Sand is fine LONDON CLAY
					0.60	54.21		Stiff becoming very stiff orange and grey mottled CLAY with occasional rootlets LONDON CLAY
		1.00	PP	2.5kg/cm2				
		1.40	ES					
		1.50	PP	3.6kg/cm2				
					1.70	53.11		Stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY
		2.00	PP	2.5kg/cm2				
					2.10	52.71		Orange and grey mottled slightly clayey silty fine SAND LONDON CLAY
	▼							
					3.30	51.51		Orange and grey mottled clayey silty fine SAND LONDON CLAY
					4.20	50.61		Firm dark grey sandy CLAY. Sand is fine LONDON CLAY
		4.50	PP	1.2kg/cm2				
		5.00	PP	1.4kg/cm2	5.00	49.81		End of Borehole at 5.00m

Dynamic Sampling Run Details			Water Strike Details (mbgl)		**Remarks**
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
			3.00	3.00	

AGS

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **WS04** Sheet 1 of 1

Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450764E - 118486N	Hole Type WLS
Location:	Fair Oak		Level: 42.85	Scale 1:25
Client:	Bloor Homes Southern		Dates: 16/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	42.60		Grass over dark brown sandy CLAY with frequent roots and rootlets TOPSOIL	
					0.70	42.14		Firm orange brown very sandy CLAY with occasional roots and rootlets. Sand is fine LONDON CLAY	
								Orange brown clayey silty fine SAND with occasional bands of orange and grey mottled sandy CLAY LONDON CLAY	1
					1.80	41.04		Stiff orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY	
		2.00	PP	2.3kg/cm2					2
					2.20	40.65		Stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY	
		2.50	PP	2.0kg/cm2					
		2.60	ES						
		3.00	PP	2.1kg/cm2					3
					3.15	39.70		Stiff dark grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		3.50	PP	2.9kg/cm2					
		4.00	PP	2.7kg/cm2					4
					4.10	38.74		Stiff dark grey sandy CLAY. Sand is fine LONDON CLAY	
		4.50	PP	1.8kg/cm2					
		5.00	PP	1.6kg/cm2	5.00	37.84		End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		**Remarks**
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **WS05** Sheet 1 of 1
Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450841E - 118744N	Hole Type WLS
Location:	Fair Oak		Level:	Scale 1:25
Client:	Bloor Homes Southern		Dates: 16/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25			Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL	
		0.50	PP	1.5kg/cm2				Firm orange brown slightly sandy CLAY with occasional roots and rootlets LONDON CLAY	
					0.70			Stiff orange and grey mottled CLAY with rare rootlets LONDON CLAY	
		1.00	PP	2.0kg/cm2					1
		1.20	ES						
					1.30			Firm to stiff orange and grey mottled CLAY LONDON CLAY	
		1.50	PP	1.5kg/cm2					
					1.90			Stiff brownish grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		2.00	PP	1.4kg/cm2					2
		2.50	PP	1.7kg/cm2					
		3.00	PP	2.5kg/cm2					3
					3.10			Stiff becoming very stiff dark grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		3.50	PP	2.8kg/cm2					
		4.00	PP	3.1kg/cm2					4
								Rare shell inclusions	
		4.50	PP	2.6kg/cm2					
		5.00	PP	3.0kg/cm2	5.00			End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		**Remarks**
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	

AGS

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	Borehole Log	Borehole No. **WS06** Sheet 1 of 1
Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450809E - 118551N	Hole Type WLS
Location:	Fair Oak		Level: 45.06	Scale 1:25
Client:	Bloor Homes Southern		Dates: 15/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30	44.76		Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL	
		0.50	PP	0.4kg/cm2				Soft to firm orange brown sandy wet CLAY with occasional roots and rootlets. Sand is fine LONDON CLAY	
		1.00	PP	0.5kg/cm2					1
					1.10	43.96		Firm to stiff orange brown CLAY with occasional rootlets LONDON CLAY	
					1.40	43.66		Firm to stiff orange brown CLAY LONDON CLAY	
		1.50	PP	2.1kg/cm2					
		2.00	PP	1.7kg/cm2					2
		2.20	ES		2.20	42.86		Firm to stiff orange and grey mottled slightly sandy CLAY LONDON CLAY	
		2.50	PP	1.4kg/cm2					
		3.00	PP	1.7kg/cm2					3
		3.50	PP	1.5kg/cm2					
		4.00	PP	1.2kg/cm2					4
					4.40	40.66		Stiff dark grey and slightly orange slightly sandy CLAY. Sand is fine LONDON CLAY	
		4.50	PP	2.5kg/cm2					
		5.00	PP	2.0kg/cm2	5.00	40.06		End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	

AGS

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Unit 7, Danworth Farm
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Borehole Log

Borehole No. **WS07**
Sheet 1 of 1

Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450737E - 118632N	Hole Type WLS
Location:	Fair Oak		Level: 49.91	Scale 1:25
Client:	Bloor Homes Southern		Dates: 16/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	49.66		Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL	
		0.50	PP	1.1kg/cm2				Firm orange brown slightly sandy CLAY with occasional roots and rootlets LONDON CLAY	
					0.60	49.31		Firm orange brown slightly sandy CLAY with rare rootlets. Sand is fine LONDON CLAY	
		1.00	PP	1.1kg/cm2					1
					1.20	48.71		Firm orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY	
		1.50	PP	0.8kg/cm2					
		2.00	PP	0.9kg/cm2					2
					2.30	47.61		Stiff orange and grey mottled slightly sandy CLAY with rare ferrous inclusions. Sand is fine LONDON CLAY	
		2.50	PP	2.1kg/cm2					
		3.00	PP	2.2kg/cm2					3
					3.20	46.71		Very stiff brownish grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		3.50	PP	3.9kg/cm2					
		3.70	ES						
					3.80	46.11		Very stiff dark grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		4.00	PP	3.0kg/cm2					4
		4.50	PP	3.5kg/cm2					
		5.00	PP	3.6kg/cm2	5.00	44.91		End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	

AGS

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	Borehole Log	Borehole No. **WS08** Sheet 1 of 1

Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450723E - 118756N	Hole Type WLS
Location:	Fair Oak		Level: 54.77	Scale 1:25
Client:	Bloor Homes Southern		Dates: 15/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	54.52		Grass over dark brown sandy CLAY with frequent roots and rootlets TOPSOIL	
					0.70	54.07		Soft to firm orange brown sandy CLAY with frequent roots and rootlets. Sand is fine LONDON CLAY	
		1.00	PP	1.5kg/cm2				Firm orange brown slightly sandy CLAY with occasional roots and rootlets LONDON CLAY	1
		1.20	ES						
		1.50	PP	1.4kg/cm2	1.40	53.37		Firm orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY	
		2.00	PP	1.0kg/cm2					2
					2.20	52.57		Soft to firm orange and grey mottled sandy sticky CLAY. Sand is fine LONDON CLAY	
					2.90	51.87		Soft to firm orange brown very sandy sticky CLAY. Sand is fine LONDON CLAY	3
	▼								4
					4.70	50.07		Firm dark grey sandy CLAY. Sand is fine LONDON CLAY	
		5.00	PP	0.9kg/cm2	5.00	49.77		End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	Borehole slumping due to wet clays
			4.00	4.00	

AGS

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **WS09** Sheet 1 of 1

Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords:	450625E - 118749N	Hole Type WLS
Location:	Fair Oak		Level:	56.70	Scale 1:25
Client:	Bloor Homes Southern		Dates:	16/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	56.45		Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL	
		0.50	PP	1.4kg/cm2				Firm orange brown slightly sandy CLAY with occasional roots and rootlets LONDON CLAY	
		1.00	ES						1
		1.00	PP	1.1kg/cm2					
					1.20	55.50		Firm to stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY	
		1.50	PP	1.5kg/cm2					
		2.00	PP	2.0kg/cm2					2
		2.50	PP	1.0kg/cm2	2.50	54.20		Firm to stiff brownish grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		3.00	PP	2.5kg/cm2					3
					3.20	53.50		Stiff becoming very stiff dark grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		3.50	PP	2.1kg/cm2					
		4.00	PP	2.4kg/cm2					4
		4.50	PP	3.0kg/cm2					
		5.00	PP	3.5kg/cm2	5.00	51.70		End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		**Remarks**
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	

AGS

Geo-Environmental
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Borehole Log

Borehole No. **WS10**
Sheet 1 of 1

Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords:	450591E - 118850N	Hole Type WLS
Location:	Fair Oak		Level:	58.09	Scale 1:25
Client:	Bloor Homes Southern		Dates:	15/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.25	57.84		Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL
		0.50	PP	1.5kg/cm2				Firm orange and grey mottled slightly sandy CLAY with occasional roots and rootlets LONDON CLAY
					0.60	57.49		Firm to stiff orange and grey mottled slightly sandy CLAY with rare rootlets. Sand is fine LONDON CLAY
		1.00	PP	2.0kg/cm2				
					1.20	56.89		Firm orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY
		1.50	PP	1.2kg/cm2				
		1.80	ES		1.80	56.29		Soft orange and grey mottled sandy sticky CLAY. Sand is fine LONDON CLAY
		2.00	PP	0.5kg/cm2				
					3.40	54.69		Firm brownish grey slightly sandy CLAY. Sand is fine LONDON CLAY
		3.50	PP	0.9kg/cm2				
		4.00	PP	1.5kg/cm2	4.00	54.09		End of Borehole at 4.00m

1 2 3 4 5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	Sides unstable due to wet clays slumping in borehole

AGS

Geo-Environmental Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**		Borehole No. **WS11** Sheet 1 of 1
Project Name: Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450625E - 118526N	Hole Type WLS
Location: Fair Oak		Level:	Scale 1:25
Client: Bloor Homes Southern		Dates: 15/12/2022	Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25			Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL	
		0.50	PP	1.7kg/cm2				Firm orange and grey mottled CLAY with frequent rootlets LONDON CLAY	
		1.00	PP	1.7kg/cm2					1
					1.10			Firm to stiff orange and grey mottled slightly sandy slightly gravelly CLAY. Sand is fine and gravel is fine to medium sub angular to sub rounded of flint LONDON CLAY	
					1.40			Firm orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY	
		1.50	PP	1.8kg/cm2					
	▼	2.00	PP	1.2kg/cm2					2
		2.10	ES						
		2.50	PP	1.4kg/cm2					
		3.00	PP	1.0kg/cm2					3
					3.10			Stiff brownish grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		3.50	PP	1.8kg/cm2					
					3.60			Firm dark grey slightly sandy CLAY. Sand is fine LONDON CLAY	
		4.00	PP	1.5kg/cm2					4
		4.50	PP	2.5kg/cm2					
		5.00	PP	2.6kg/cm2	5.00			End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
			2.00	2.00	

AGS

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	Borehole Log	Borehole No. **WS12** Sheet 1 of 1
Project Name:	Land South of Mortimers Lane	Project No. GE21215	Co-ords: 450628E - 118918N Hole Type WLS
Location:	Fair Oak		Level: 59.54 Scale 1:25
Client:	Bloor Homes Southern		Dates: 15/12/2022 Logged By FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.25	59.29		Grass over dark brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL	
		0.50	PP	1.5kg/cm2				Firm orange and grey mottled CLAY with occasional roots and rootlets LONDON CLAY	
					0.90	58.64			
		1.00	PP	1.1kg/cm2				Firm orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY	1
		1.50	PP	1.5kg/cm2					
					1.90	57.64			
		2.00	PP	1.5kg/cm2				Stiff becoming very stiff brownish grey slightly sandy CLAY. Sand is fine LONDON CLAY	2
		2.50	PP	2.6kg/cm2					
		3.00	ES						3
		3.00	PP	2.2kg/cm2					
		3.50	PP	3.4kg/cm2					
					3.75	55.79		Stiff becoming very stiff dark grey slightly sandy CLAY LONDON CLAY	
		4.00	PP	2.3kg/cm2					4
		4.50	PP	3.0kg/cm2					
		5.00	PP	3.5kg/cm2	5.00	54.54		End of Borehole at 5.00m	5

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	

AGS

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **BH01** Sheet 1 of 3

Project Name:	Land South of Mortimers Lane	Project No. GE22375	Co-ords: 450775E - 118779N	Hole Type CP
Location:	Fair Oak		Level: 52.46	Scale 1:50
Client:	Bloor Homes Southern		Dates: 11/11/2024	Logged By Del Bowman

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.10	52.36		TOPSOIL. TOPSOIL
		0.30	B					Soft mottled orange brown slightly gravelly CLAY. Gravel is rounded fine. LONDON CLAY
		0.50	B					
		1.00	B					
		1.50 - 1.95	D					
		1.50	S	N=9 (1,1/2,2,2,3)				
		2.50 - 2.95	D					
		2.50	S	N=10 (1,2/2,2,3,3)				
		3.50 - 3.95	D					
		3.50	S	N=11 (1,2/2,3,3,3)				
		4.10	B		4.10	48.36		Firm to stiff grey slightly silty CLAY. LONDON CLAY
		4.50 - 4.95	D					
		4.50	S	N=14 (2,3/3,3,4,4)				
		5.50 - 5.95	D					
		5.50	S	N=15 (2,2/3,3,4,5)				
		6.50 - 6.95	D					
		6.50	S	N=21 (2,4/4,5,6,6)				
		7.50 - 7.95	D					
		7.50	S	N=26 (3,4/4,7,7,8)				
		8.50 - 8.95	D					
		8.50	S	N=26 (3,5/5,6,7,8)				
		9.50 - 9.95	D					
		9.50	S	N=28 (4,6/6,6,7,9)				
								Continued on Next Sheet

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
150 200	3.00					

AGS
Status
PRELIM

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **BH01** Sheet 2 of 3

Project Name:	Land South of Mortimers Lane	Project No. GE22375	Co-ords:	450775E - 118779N	Hole Type CP
Location:	Fair Oak		Level:	52.46	Scale 1:50
Client:	Bloor Homes Southern		Dates:	11/11/2024	Logged By Del Bowman

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50 - 10.95 10.50	D S	N=28 (4,6/6,6,7,9)				Firm to stiff grey slightly silty CLAY. LONDON CLAY
		11.50 - 11.95 11.50	D S	N=31 (5,7/7,8,8,8)				
		12.50 - 12.95 12.50	D S	N=30 (4,6/6,7,8,9)				
		13.50 - 13.95 13.50	D S	N=30 (5,5/6,6,9,9)				
		14.50 - 14.95 14.50	D S	N=36 (4,7/7,9,10,10)				
		15.50 - 15.95 15.50	D S	N=31 (4,6/6,7,8,10)				
		16.50 - 16.95 16.50	D S	N=35 (6,7/7,8,10,10)				
		17.50 - 17.95 17.50	D S	N=38 (6,7/7,9,10,12)				
		18.50 - 18.95 18.50	D S	N=39 (6,8/8,9,10,12)				
		19.50 - 19.95 19.50	D S	N=39 (7,7/8,8,10,13)				

Continued on Next Sheet

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
150 200	3.00					

AGS
Status
PRELIM

Geo-Environmental	Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net	**Borehole Log**	Borehole No. **BH01** Sheet 3 of 3

Project Name:	Land South of Mortimers Lane	Project No. GE22375	Co-ords:	450775E - 118779N	Hole Type CP
Location:	Fair Oak		Level:	52.46	Scale 1:50
Client:	Bloor Homes Southern		Dates:	11/11/2024	Logged By Del Bowman

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		20.50 - 20.95 20.50	D S	N=41 (6,9/9,10,10,12)				Firm to stiff grey slightly silty CLAY. LONDON CLAY
		21.50 - 21.95 21.50	D S	N=39 (6,7/7,9,10,13)				
		22.50 - 22.95 22.50	D S	N=39 (6,7/7,9,10,13)				
		23.50 - 23.95 23.50	D S	N=44 (7,9/9,10,12,13)				
		24.50 - 24.95 24.50	D S	N=48 (8,10/10,12,13,13)				
					25.00	27.46		End of Borehole at 25.00m

21 22 23 24 25 26 27 28 29 30

Casing		Water Strikes (mbgl)		Chiselling (mbgl)		Remarks
Diameter	Depth (m)	Depth Strike	Rose to	Depth from	Depth to	
150 200	3.00					

AGS
Status
PRELIM

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP01
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	08/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450593.0	Northing: 118920.0	Ground Level: 59.80mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.15	ES1		59.55	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets and occasional flint gravel TOPSOIL		
0.50	D1	PP=2.2kg/cm2		(0.45)		Firm orange and grey mottled CLAY with occasional roots and rootlets LONDON CLAY		
0.70	ES2		59.10	0.70		Stiff orange and grey mottled CLAY LONDON CLAY		
1.00	D2	PP=2.3kg/cm2		(0.50)				
			58.60	1.20		Firm orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.5kg/cm2		(0.50)				
			58.10	1.70		Stiff orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY		
2.00	D4	PP=2.8kg/cm2		(0.50)				
			57.60	2.20		Orange and grey mottled clayey fine SAND LONDON CLAY		
2.50	D5			(0.40)				
			57.20	2.60		End of Trial Pit at 2.60m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.60m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Water seepage through base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP02
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450653.0	Northing: 118915.0	Ground Level: 59.24mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, cool | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			59.00	0.25		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL		
0.35	ES1					Firm orange brown silty sandy CLAY. With occasional rootlets. Sand is fine LONDON CLAY		
0.50	D1	PP=1.3kg/cm2		(0.85)				
1.00	D2	PP=1kg/cm2	58.14	1.10		Firm orange brown sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.7kg/cm2		(0.50)				
			57.64	1.60		End of Trial Pit at 1.60m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	1.60m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Soakage

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP03
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	07/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450590.0	Northing: 118880.0	Ground Level: 58.75mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.15	ES1		58.50	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.40	ES2			(0.35)		Firm orange and grey mottled CLAY with occasional roots and rootlets LONDON CLAY		
0.50	D1	PP=1.5kg/cm2	58.15	0.60				
1.00	D2	PP=1.2kg/cm2		(0.60)		Firm to stiff orange and grey mottled slightly gravelly CLAY. Gravel is medium to coarse sub angular to sub rounded of flint LONDON CLAY		
1.50	D3	PP=2kg/cm2	57.55	1.20		Stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
2.00	D4	PP=2.3kg/cm2		(1.30)				
2.50	D5	PP=1.8kg/cm2	56.25	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP04
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	07/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450588.0	Northing: 118841.0	Ground Level: 57.94mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			57.69	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.30	ES1					Firm orange and grey mottled slightly sandy CLAY with occasional rootlets LONDON CLAY		
0.50	B1	PP=1.9kg/cm2		(0.55)				
0.50	D1		57.14	0.80		Firm orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY		
1.00	D2	PP=1.6kg/cm2						
1.50	D3	PP=2kg/cm2		(1.50)				
2.00	D4	PP=1.4kg/cm2						
			55.64	2.30		Orange slightly clayey fine SAND LONDON CLAY		
2.50	D5		55.44	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Water seepage through base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP05
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	07/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450657.0	Northing: 118848.0	Ground Level: 57.76mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, damp | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.20	ES1		57.51	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.5kg/cm2		(0.65)		Firm orange and grey mottled CLAY with occasional roots and rootlets and rare flint gravel LONDON CLAY		
1.00	D2	PP=1.6kg/cm2	56.86	0.90		Firm orange and grey mottled sticky CLAY LONDON CLAY		
1.50	D3	PP=1.6kg/cm2	56.36	1.40		Firm to stiff orange and grey mottled CLAY with rare flint gravel LONDON CLAY		
2.00	D4	PP=1.7kg/cm2	55.66	2.10		Firm orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
		PP=1.4kg/cm2	55.26	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Water seepage through side wall at 2.4m bgl

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP06
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 2
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450571.0	Northing: 118830.0	Ground Level: 58.04mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			57.84	0.20		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.9kg/cm2		(0.90)		Firm to stiff orange and grey slightly sandy CLAY CLAY with occasional rootlets LONDON CLAY		
1.00	D2	PP=2.4kg/cm2	56.94	1.10				
1.50	D3	PP=2.6kg/cm2		(1.00)		Stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
2.00	D4	PP=3.1kg/cm2						
2.00	ES1		55.94	2.10		End of Trial Pit at 2.10m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.10m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Steady water seepage in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP07
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	05/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450599.0	Northing: 118820.0	Ground Level: 57.36mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			57.11	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.4kg/cm2		(0.95)		Firm orange and grey mottled slightly sandy CLAY with occasional roots and rootlets LONDON CLAY		
1.00	D2	PP=1.3kg/cm2						
			56.16	1.20		Firm orange and grey slightly sandy CLAY with occasional flint gravel LONDON CLAY		
1.50	D3	PP=1.5kg/cm2		(0.50)				
1.70	D4	PP=1.4kg/cm2	55.66	1.70		End of Trial Pit at 1.70m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	1.70m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP08
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	05/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450628.0	Northing: 118811.0	Ground Level: 56.49mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			56.24	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1			(0.35)		Firm brown and grey slightly sandy silty CLAY with occasional roots and rootlets LONDON CLAY		
			55.89	0.60				
1.00	D2			(0.60)		Firm orange and grey mottled slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to medium sub angular to sub rounded of flint LONDON CLAY		
			55.29	1.20				
1.50	D3			(0.40)		Firm orange and grey mottled slightly sandy CLAY. LONDON CLAY		
			54.89	1.60				
2.00	D4			(1.00)		Firm orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY		
2.50	D5							
			53.89	2.60		End of Trial Pit at 2.60m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.60m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Water seepage through base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit


PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP09
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	05/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450664.0	Northing: 118803.0	Ground Level: 55.57mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			55.32	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.35	ES1					Firm to stiff orange brown CLAY with occasional roots and rootlets LONDON CLAY		
0.50	D1	PP=1.6kg/cm2		(0.45)				
			54.87	0.70		Stiff orange and grey mottled CLAY LONDON CLAY		
1.00	D2	PP=1.9kg/cm2						
				(1.10)				
1.50	D3	PP=1.8kg/cm2						
			53.77	1.80		Firm to stiff orange and grey mottled slightly sandy CLAY LONDON CLAY		
2.00	D4	PP=1.5kg/cm2						
				(0.60)				
			53.17	2.40		End of Trial Pit at 2.40m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.40m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Slight water seepage in sidewall at 2.2m bgl

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP10
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	07/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450692.0	Northing: 118785.0	Ground Level: 54.67mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			54.42	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.1kg/cm2		(1.05)		Firm orange and grey mottled slightly sandy CLAY with occasional roots and rootlets LONDON CLAY		
1.00	D2	PP=1.8kg/cm2						
			53.37	1.30		Firm to stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.9kg/cm2		(0.90)				
2.00	D4	PP=2.2kg/cm2						
			52.47	2.20		Stiff orange and grey laminated slightly sandy CLAY LONDON CLAY		
				(0.30)				
		PP=2.1kg/cm2	52.17	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Groundwater not encountered

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name: Land South of Mortimers Lane			Client: Bloor Homes Southern		Trial Pit ID: TP11
Contract Number: GE22375	Date Started: 06/11/2024	Logged By: FG	Checked By: SA	Status: PRELIM	Sheet 1 of 1
Trial Pit Log	Easting: 450623.1	Northing: 118648.1	Ground Level: 51.21mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25
Weather: Overcast, dry	Hole Termination:		Stability: Sides stable		

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.20	ES1		50.96	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.6kg/cm2		(0.50)		Firm orange and grey mottled slightly sandy CLAY with occasional rootlets LONDON CLAY		
			50.46	0.75				
1.00	D2	PP=2kg/cm2		(0.45)		Stiff orange and grey mottled CLAY with rare rootlets LONDON CLAY		
			50.01	1.20				
1.50	D3	PP=2.1kg/cm2				Stiff orange and grey mottled CLAY LONDON CLAY		
				(1.00)				
2.00	D4	PP=1.9kg/cm2						
			49.01	2.20		Firm orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY		
				(0.30)				
2.50	D5		48.71	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP12
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450567.0	Northing: 118819.0	Ground Level: 58.37mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			58.17	0.20		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=2.1kg/cm2		(0.60)		Firm to stiff orange brown slightly sandy CLAY with occasional roots and rootlets LONDON CLAY		
			57.57	0.80				
1.00	D2	PP=1.7kg/cm2				Stiff orange and grey slightly sandy CLAY with occasional roots and rootlets LONDON CLAY		
				(0.90)				
1.50	D3	PP=1.8kg/cm2						
			56.67	1.70		Stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
				(0.30)				
2.00	D4	PP=1.7kg/cm2	56.37	2.00		End of Trial Pit at 2.00m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.00m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Groundwater not encountered

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP13
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450587.0	Northing: 118809.0	Ground Level: 57.83mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			57.58	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.5kg/cm2		(0.50)		Firm orange brown slightly silty slightly sandy CLAY with rare rootlets LONDON CLAY		
			57.08	0.75				
1.00	D2	PP=1.5kg/cm2				Firm becoming stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.4kg/cm2		(1.45)				
2.00	D4	PP=1.6kg/cm2						
			55.63	2.20		Stiff orange and grey slightly sandy CLAY. Sand is fine LONDON CLAY		
				(0.30)				
2.50	D5	PP=2.5kg/cm2	55.33	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name: Land South of Mortimers Lane			Client: Bloor Homes Southern		Trial Pit ID: TP15
Contract Number: GE22375	Date Started: 05/11/2024	Logged By: FG	Checked By: SA	Status: PRELIM	Sheet 1 of 1
Trial Pit Log	Easting: 450644.0	Northing: 118798.0	Ground Level: 55.95mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25
Weather: Overcast, dry	Hole Termination:		Stability: Sides stable		

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			55.70	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.2kg/cm2		(0.85)		Firm orange brown slightly silty slightly sandy CLAY with occasional rootlets LONDON CLAY		
1.00	D2	PP=1.4kg/cm2	54.85	1.10		Firm orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.5kg/cm2		(1.40)				
2.00	D4	PP=1.3kg/cm2						
2.50	D5	PP=1.5kg/cm2	53.45	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Water seepage through base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP16
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450559.0	Northing: 118793.0	Ground Level: 58.89mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			58.69	0.20		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
				(0.40)		Firm orange brown sandy CLAY with occasional rootlets LONDON CLAY		
0.50	D1	PP=1.6kg/cm2	58.29	0.60				
				(0.60)		Firm orange and grey mottled sandy CLAY with rare rootlets LONDON CLAY		
1.00	D2	PP=1.5kg/cm2						
			57.69	1.20		Firm orange and grey mottled slightly silty sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.3kg/cm2						
				(1.30)				
2.00	D4	PP=2kg/cm2						
2.50	D5	PP=1.3kg/cm2	56.39	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Groundwater steady seepage in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name: Land South of Mortimers Lane			Client: Bloor Homes Southern		Trial Pit ID: TP17
Contract Number: GE22375	Date Started: 04/11/2024	Logged By: FG	Checked By: SA	Status: PRELIM	Sheet 1 of 1
Trial Pit Log	Easting: 450591.0	Northing: 118791.0	Ground Level: 58.08mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25
Weather: Overcast, dry	Hole Termination:		Stability: Sides stable		

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			57.83	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.3kg/cm2		(0.55)		Firm orange and grey mottled slightly sandy silty CLAY with occasional rootlets LONDON CLAY		
			57.28	0.80				
1.00	D2	PP=1.5kg/cm2		(0.80)		Firm orange and grey sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.2kg/cm2						
			56.48	1.60		Firm orange and grey mottled slightly silty sandy CLAY. Sand is fine LONDON CLAY		
2.00	D4	PP=1.3kg/cm2		(0.80)				
			55.68	2.40		End of Trial Pit at 2.40m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.40m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Groundwater seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP18
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	05/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450624.0	Northing: 118785.0	Ground Level: 56.83mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.15	ES1		56.58	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.40	ES2					Firm orange and grey mottled slightly sandy CLAY with occasional roots and rootlets LONDON CLAY		
0.50	D1	PP=1.6kg/cm2		(0.85)				
1.00	D2	PP=1.5kg/cm2	55.73	1.10		Firm orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.6kg/cm2		(1.20)				
2.00	D4	PP=2.1kg/cm2						
2.50	D5	PP=2kg/cm2	54.53 54.33	2.30 2.50		Firm to stiff orange and grey mottled slightly gravelly sandy CLAY. Sand is fine and gravel is fine to medium sub angular to sub rounded of flint LONDON CLAY End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Slight water seepage in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP19
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	05/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450663.0	Northing: 118773.0	Ground Level: 55.99mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			55.74	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
				(0.35)		Orange and grey very clayey fine SAND/ sandy CLAY with rare rootlets LONDON CLAY		
0.50	D1	PP=2kg/cm2	55.39	0.60				
						Stiff orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY		
1.00	D2	PP=2kg/cm2		(0.80)				
			54.59	1.40				
1.50	D3					Orange and grey slightly clayey dense fine SAND LONDON CLAY		
				(0.40)				
			54.19	1.80				
						Stiff orange and grey and occasionally red mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
2.00	D4	PP=2.4kg/cm2		(0.60)				
		PP=2.2kg/cm2	53.59	2.40		End of Trial Pit at 2.40m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.40m
Final Width:	0.60m
Final Length:	1.80m

Remarks

Slight seepage through sidewall at 2.2m bgl

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP20
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	07/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450718.0	Northing: 118771.0	Ground Level: 54.57mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, damp | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			54.32	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
				(0.35)		Firm orange brown sandy CLAY with occasional roots and rootlets LONDON CLAY		
0.50	D1	PP=1.2kg/cm2	53.97	0.60				
				(0.60)		Firm orange and grey mottled slightly sandy CLAY with rare rootlets. Sand is fine LONDON CLAY		
1.00	D2	PP=1.5kg/cm2						
			53.37	1.20		Stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=2kg/cm2		(0.70)				
			52.67	1.90		Stiff orange and grey laminated slightly sandy CLAY LONDON CLAY		
2.00	D4	PP=1.9kg/cm2		(0.60)				
			52.07	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Water seepage through base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP21
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450556.0	Northing: 118775.0	Ground Level: 58.79mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, breezy | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			58.54	0.25		Grass over brown slightly sandy CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1			(1.05)		Firm orange sandy CLAY with occasional roots and rootlets LONDON CLAY		
1.00	D2	PP=1.5kg/cm2						
			57.49	1.30		Stiff orange brown sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=2.5kg/cm2		(0.40)				
			57.09	1.70		Firm orange brown very sandy CLAY. Sand is fine LONDON CLAY		
				(0.30)				
2.00	D4	PP=1.5kg/cm2	56.79	2.00		End of Trial Pit at 2.00m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.00m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Groundwater not encountered

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP22
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450576.0	Northing: 118770.0	Ground Level: 58.62mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.15	ES1		58.42	0.20		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
				(0.40)		Firm orange brown slightly sandy CLAY with occasional rootlets LONDON CLAY		
0.50	D1	PP=1.5kg/cm2	58.02	0.60		Firm orange brown sandy CLAY. Sand is fine LONDON CLAY		
1.00	D2	PP=1.4kg/cm2						
				(1.60)				
1.50	D3	PP=1.6kg/cm2						
2.00	D4	PP=1.5kg/cm2						
			56.42	2.20		End of Trial Pit at 2.20m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.20m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Slight water seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP23
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450613.0	Northing: 118766.0	Ground Level: 57.30mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, breezy | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			57.10	0.20		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
				(0.55)		Firm orange brown slightly sandy CLAY with rare rootlets LONDON CLAY		
0.50	D1	PP=1.5kg/cm2						
			56.55	0.75		Firm becoming stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
1.00	D2	PP=2kg/cm2						
				(0.75)				
1.50	D3	PP=2.4kg/cm2	55.80	1.50		End of Trial Pit at 1.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	1.50m
Final Width:	0.60m
Final Length:	1.80m

Remarks

Soakage

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP24
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	05/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450652.0	Northing: 118759.0	Ground Level: 56.52mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			56.27	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.7kg/cm2		(0.50)		Firm orange brown slightly sandy CLAY with occasional rootlets LONDON CLAY		
			55.77	0.75				
1.00	D2	PP=1.7kg/cm2		(0.45)		Firm orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY		
			55.32	1.20				
1.50	D3	PP=2kg/cm2		(0.50)		Stiff orange and grey sandy CLAY. Sand is fine LONDON CLAY		
			54.82	1.70				
2.00	D4			(0.80)		Orange and grey slightly clayey dense fine SAND LONDON CLAY		
2.50	D5		54.02	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Very slight water seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP25
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	07/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450699.0	Northing: 118757.0	Ground Level: 55.50mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, damp | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			55.25	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.30	ES1					Firm orange brown very sandy CLAY with occasional roots and rootlets LONDON CLAY		
0.50	D1	PP=1.5kg/cm2		(0.50)				
			54.75	0.75		Orange brown very clayey fine SAND with occasional bands of firm orange CLAY LONDON CLAY		
1.00	D2							
				(0.95)				
1.50	D3							
			53.80	1.70		Firm orange and grey mottled sandy CLAY with occasional bands of fine orange and grey SAND LONDON CLAY		
2.00	D4	PP=1.1kg/cm2		(0.50)				
			53.30	2.20		Firm orange and grey sandy CLAY. Sand is fine LONDON CLAY		
				(0.30)				
2.50	D5	PP=1.4kg/cm2	53.00	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP26
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450548.0	Northing: 118747.0	Ground Level: 57.46mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, breezy | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			57.21	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=2.4kg/cm2		(0.55)		Firm to stiff orange brown slightly sandy CLAY with occasional rootlets LONDON CLAY		
			56.66	0.80		Stiff orange brown slightly sandy CLAY. Sand is fine LONDON CLAY		
1.00	D2	PP=1.8kg/cm2						
				(1.20)				
1.50	D3	PP=3.5kg/cm2						
2.00	D4	PP=2.9kg/cm2	55.46	2.00		End of Trial Pit at 2.00m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.00m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Groundwater seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP27
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	05/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450594.0	Northing: 118743.0	Ground Level: 57.47mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			57.22	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
				(0.85)		Firm orange brown sandy CLAY with rare rootlets LONDON CLAY		
0.50	D1	PP=1.5kg/cm2						
1.00	D2	PP=1.6kg/cm2						
			56.37	1.10		Firm orange and grey mottled slightly silty sandy CLAY. Sand is fine LONDON CLAY		
1.20	ES1							
1.50	D3	PP=1.5kg/cm2		(0.70)				
			55.67	1.80		Stiff orange and grey mottled slightly sandy CLAY LONDON CLAY		
2.00	D4	PP=2.3kg/cm2		(0.50)				
		PP=2kg/cm2	55.17	2.30		End of Trial Pit at 2.30m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.30m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Water seepage through side wall at 1.8m bgl and in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP28
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	05/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450648.0	Northing: 118735.0	Ground Level: 56.46mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.20	ES1		56.21	0.25		Grass over dark brown sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=2kg/cm2		(0.55)		Firm orange brown slightly sandy CLAY with occasional rootlets LONDON CLAY		
1.00	D2	PP=2.3kg/cm2	55.66	0.80 (0.40)		Stiff orange brown CLAY with rare rootlets LONDON CLAY		
1.50	D3	PP=2kg/cm2	55.26	1.20 (1.00)		Stiff orange and grey mottled very sandy CLAY LONDON CLAY		
2.00	D4		54.26	2.20 (0.30)		Orange slightly clayey fine SAND LONDON CLAY		
2.50	D5		53.96	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Slight water seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP29
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	07/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450713.0	Northing: 118731.0	Ground Level: 55.13mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, damp | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			54.88	0.25		Grass over orange brown slightly sandy slightly silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1			(0.55)		Orange brown very clayey fine SAND with occasional roots and rootlets LONDON CLAY		
			54.33	0.80		Firm orange very sandy CLAY LONDON CLAY		
1.00	B1							
1.00	D2			(0.90)				
1.50	D3	PP=1.3kg/cm2						
			53.43	1.70		Yellowish orange and slightly grey clayey fine SAND LONDON CLAY		
2.00	D4			(0.70)				
			52.73	2.40		End of Trial Pit at 2.40m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.40m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Groundwater not encountered

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP30
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	04/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450811.0	Northing: 118734.0	Ground Level: 51.04mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.20	ES1		50.79	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.7kg/cm2		(0.65)		Firm orange brown slightly sandy silty CLAY with rare rootlets LONDON CLAY		
1.00	D2	PP=1.7kg/cm2	50.14	0.90		Firm orange brown slightly sandy silty CLAY. Sand is fine LONDON CLAY		
1.00	ES2			(0.70)				
1.50	D3	PP=1.5kg/cm2						
			49.44	1.60		End of Trial Pit at 1.60m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	1.60m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Soakage

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP31
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	06/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450583.0	Northing: 118710.0	Ground Level: 56.20mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			56.10	0.10		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.30	ES1					Firm orange and grey very gravelly slightly sandy CLAY with frequent ironstone cobbles. Reworked ground MADE GROUND		
0.50	D1			(1.00)				
0.70	ES2							
1.00	D2	PP=1.5kg/cm2						
			55.10	1.10		Firm to stiff orange and grey mottled slightly sandy CLAY with rare ironstone cobbles. Sand is fine LONDON CLAY		
1.50	D3	PP=1.7kg/cm2		(0.60)				
			54.50	1.70		Stiff orange and grey mottled slightly sandy CLAY. LONDON CLAY		
2.00	D4	PP=2.1kg/cm2		(0.60)				
2.30	D5	PP=2.2kg/cm2	53.90	2.30		End of Trial Pit at 2.30m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.30m
Final Width:	0.80m
Final Length:	1.90m

Remarks

Water seepage through base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP32
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	06/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450740.0	Northing: 118675.0	Ground Level: 52.30mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.20	ES1		52.06	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1kg/cm2		(0.55)		Firm orange brown sandy CLAY with occasional rootlets LONDON CLAY		
1.00	D2	PP=2kg/cm2	51.50	0.80		Firm orange and grey mottled slightly sandy CLAY.Sand is fine LONDON CLAY		
1.50	D3	PP=2.2kg/cm2	51.00	1.30				
				(0.80)		Stiff orange and grey mottled CLAY LONDON CLAY		
2.00	D4	PP=1.9kg/cm2	50.20	2.10				
				(0.40)		Stiff orange and grey slightly sandy CLAY. Sand is fine LONDON CLAY		
2.50	D5	PP=1.9kg/cm2	49.80	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Water ingress in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP33
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	06/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450779.0	Northing: 118650.0	Ground Level: 49.33mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.15	ES1					Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
			49.08	0.25				
0.50	D1			(0.45)		Firm orange and grey mottled slightly sandy slightly silty CLAY with occasional rootlets LONDON CLAY		
			48.63	0.70				
1.00	D2					Firm orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
				(1.40)				
1.50	D3							
2.00	D4							
2.10	ES2		47.23	2.10		Firm orange and grey mottled sandy CLAY. Sand is fine LONDON CLAY		
				(0.40)				
2.50	D5		46.83	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP34
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	06/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450551.0	Northing: 118655.0	Ground Level: 51.80mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			51.55	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.30	ES1					Firm orange and grey slightly sandy CLAY with occasional rootlets LONDON CLAY		
0.50	D1	PP=1kg/cm2		(0.85)				
1.00	D2	PP=1.5kg/cm2						
			50.70	1.10		End of Trial Pit at 1.10m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	1.10m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Clay land drain encountered at 1.1m bgl with running water, therefore trial pit terminated.

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP35
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	06/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450720.0	Northing: 118601.0	Ground Level: 48.92mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			48.67	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50 0.50	B1 D1	PP=1.2kg/cm2		(0.55)		Firm orange brown slightly sandy slightly silty CLAY with occasional rootlets LONDON CLAY		
			48.12	0.80		Firm orange and grey mottled slightly sandy slightly silty CLAY. Sand is fine LONDON CLAY		
1.00	D2	PP=1.3kg/cm2		(0.50)				
			47.62	1.30		Firm orange and grey mottled sandy CLAY LONDON CLAY		
1.50	D3	PP=1.9kg/cm2						
				(1.20)				
2.00	D4	PP=2kg/cm2						
2.50	D5	PP=1.5kg/cm2	46.42	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP36
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	06/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450661.0	Northing: 118591.0	Ground Level: 48.20mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.15	ES1		47.95	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.45	ES2					Firm orange and grey mottled slightly sandy slightly silty CLAY with occasional rootlets LONDON CLAY		
0.50	D1	PP=1.2kg/cm2		(0.50)				
			47.45	0.75		Firm orange and grey mottled slightly sandy slightly silty CLAY. Sand is fine LONDON CLAY		
1.00	D2	PP=1.5kg/cm2		(0.65)				
1.20	ES3							
			46.80	1.40		Firm orange and grey slightly sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.4kg/cm2						
2.00	D4	PP=1.6kg/cm2		(1.10)				
2.50	D5	PP=1.2kg/cm2	45.70	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.20m

Remarks

Water seepage through side wall at 2.1m bgl

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name: Land South of Mortimers Lane		Client: Bloor Homes Southern			Trial Pit ID: TP37
Contract Number: GE22375	Date Started: 06/11/2024	Logged By: FG	Checked By: SA	Status: PRELIM	Sheet 1 of 1
Trial Pit Log	Easting: 450558.3	Northing: 118602.3	Ground Level: 48.22mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25
Weather: Overcast, dry	Hole Termination:		Stability: Sides stable		

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
0.20	ES1		47.97	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.50	D1	PP=1.5kg/cm2		(0.55)		Firm orange and grey mottled slightly sandy CLAY with occasional rootlets LONDON CLAY		
1.00	D2	PP=1.0kg/cm2	47.42	0.80		Firm becoming stiff orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
1.50	D3	PP=1.2kg/cm2		(1.30)				
2.00	D4	PP=0.9kg/cm2	46.12	2.10		End of Trial Pit at 2.10m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.10m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)

Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name:		Client:			Trial Pit ID:
Land South of Mortimers Lane		Bloor Homes Southern			TP38
Contract Number:	Date Started:	Logged By:	Checked By:	Status:	Sheet 1 of 1
GE22375	06/11/2024	FG	SA	PRELIM	
Trial Pit Log	Easting: 450617.8	Northing: 118595.9	Ground Level: 45.91mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25

Weather: Overcast, dry | Hole Termination: | Stability: Sides stable

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			45.66	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.40	ES1					Firm orange and grey mottled slightly sandy CLAY with occasional rootlets LONDON CLAY		
0.50	D1	PP=1.9kg/cm2		(0.65)				
			45.01	0.90		Stiff orange and grey slightly sandy slightly gravelly CLAY. Sand is fine and gravel is fine to medium sub angular to sub rounded of flint LONDON CLAY		
1.00	D2	PP=1.9kg/cm2		(0.30)				
			44.71	1.20		Stiff orange and grey mottled CLAY LONDON CLAY		
1.50	D3	PP=2.3kg/cm2		(0.60)				
			44.11	1.80		Stiff grey and orange mottled CLAY with occasional flint gravel LONDON CLAY		
2.00	D4	PP=2.4kg/cm2		(0.70)				
2.50	D5	PP=2.5kg/cm2	43.41	2.50		End of Trial Pit at 2.50m		

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	2.50m
Final Width:	0.60m
Final Length:	2.10m

Remarks

Water seepage in base of pit

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

Contract Name: Land South of Mortimers Lane			Client: Bloor Homes Southern		Trial Pit ID: TP39
Contract Number: GE22375	Date Started: 04/11/2024	Logged By: FG	Checked By: SA	Status: PRELIM	Sheet 1 of 1
Trial Pit Log	Easting: 450776.0	Northing: 118519.0	Ground Level: 44.46mOD	Plant Used: 7ton	Date Printed: 20/11/2024	Scale: 1:25
Weather: Overcast, dry	Hole Termination:		Stability: Sides stable		

Samples & In Situ Testing			Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description		
			44.21	0.25		Grass over dark brown slightly sandy silty CLAY with frequent roots and rootlets TOPSOIL		
0.40	ES1					Firm orange and grey mottled slightly sandy CLAY. Sand is fine LONDON CLAY		
0.50	D1	PP=1.7kg/cm2						
				(1.25)				
1.00	D2	PP=1.4kg/cm2						
1.50	D3	PP=2kg/cm2	42.96	1.50		End of Trial Pit at 1.50m		
1.50	ES2							

0.5 1.0 1.5 2.0 2.5 3.0 3.5

Dimensions:

Final Depth:	1.50m
Final Width:	0.60m
Final Length:	1.90m

Remarks

Soakage

Water Strikes (mbgl)		
Depth Strike	Rose to	Time Elapsed (mins)

Photo:



PhotoofPit



PhotoofSpoil

Geo-Environmental

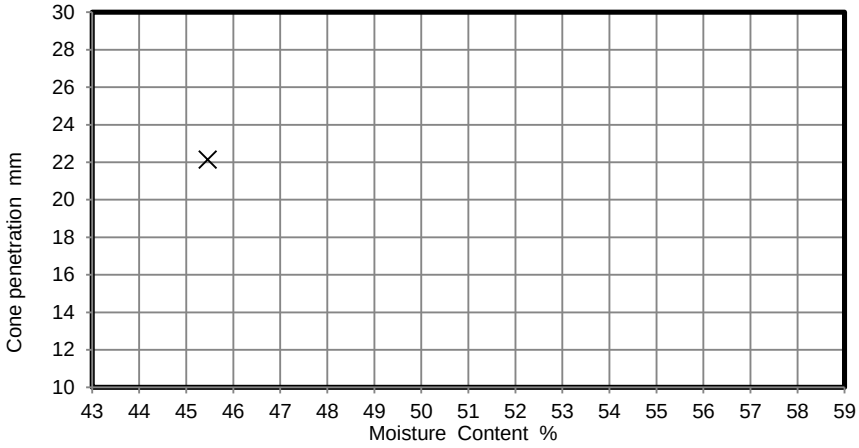
APPENDIX C

Geotechnical Laboratory Results



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	BH01
Site Name	Land South of Mortimers Lane			Sample No.	4
Project No.	GE22375	Client	GESL	Depth Top m	4.50
Soil Description	Dark grey and occasional brown silty CLAY with rare fine gravel			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	27/11/2024



WATER CONTENT	**24.6**	**%**
% PASSING 425µm SIEVE	**99**	**%**
LIQUID LIMIT	**44**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**23**	**%**

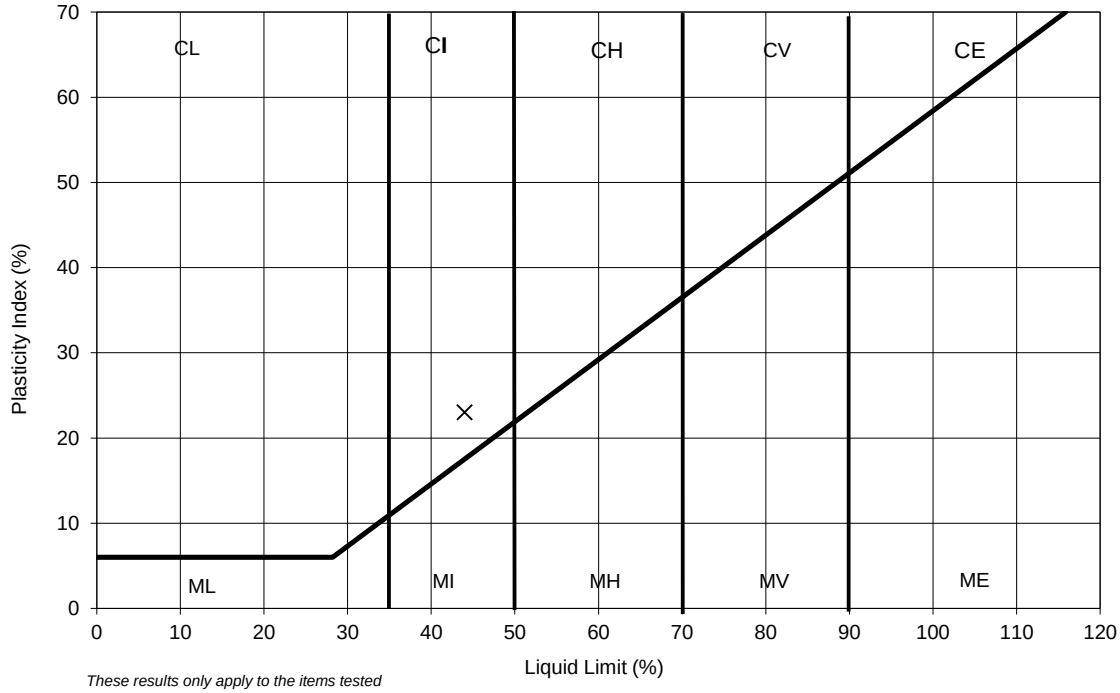
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

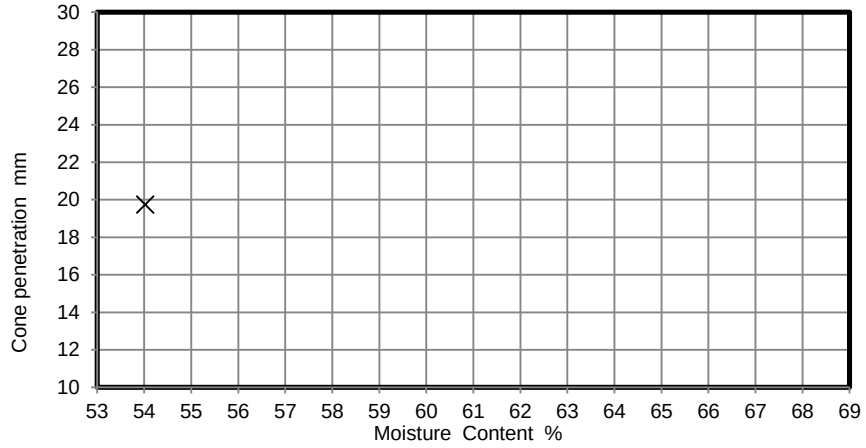
UKAS TESTING

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	BH01
Site Name	Land South of Mortimers Lane			Sample No.	8
Project No.	GE22375	Client	GESL	Depth Top m	8.50
Soil Description	Dark grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	27/11/2024



WATER CONTENT	**24.4**	**%**
% PASSING 425µm SIEVE	**97**	**%**
LIQUID LIMIT	**54**	**%**
PLASTIC LIMIT	**23**	**%**
PLASTICITY INDEX	**31**	**%**

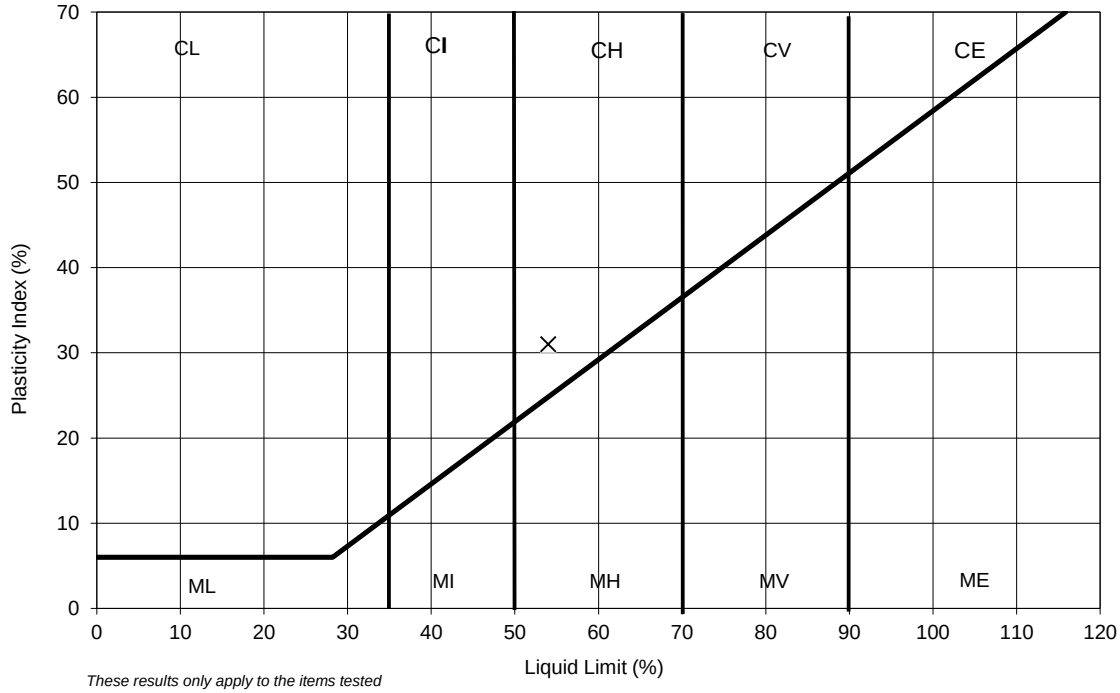
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

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Tel: 01923 711 288 Email: James@k4soils.com

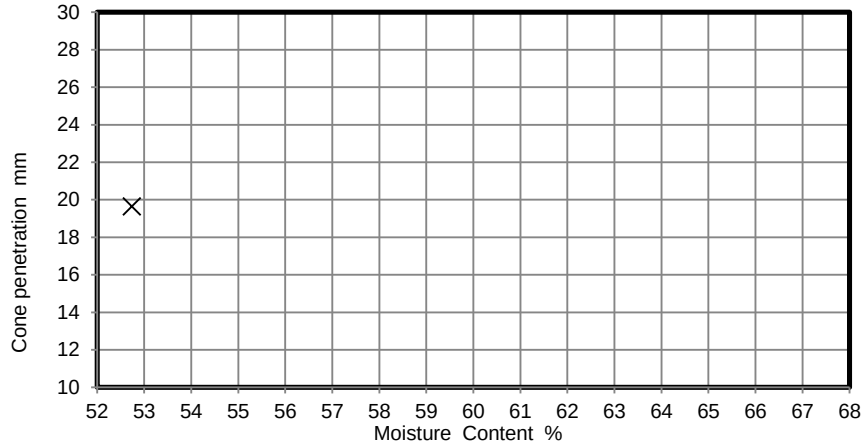
UKAS TESTING

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	BH01
Site Name	Land South of Mortimers Lane			Sample No.	14
Project No.	GE22375	Client	GESL	Depth Top m	14.50
Soil Description	Dark grey silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	27/11/2024



WATER CONTENT	**23.3**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**53**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**32**	**%**

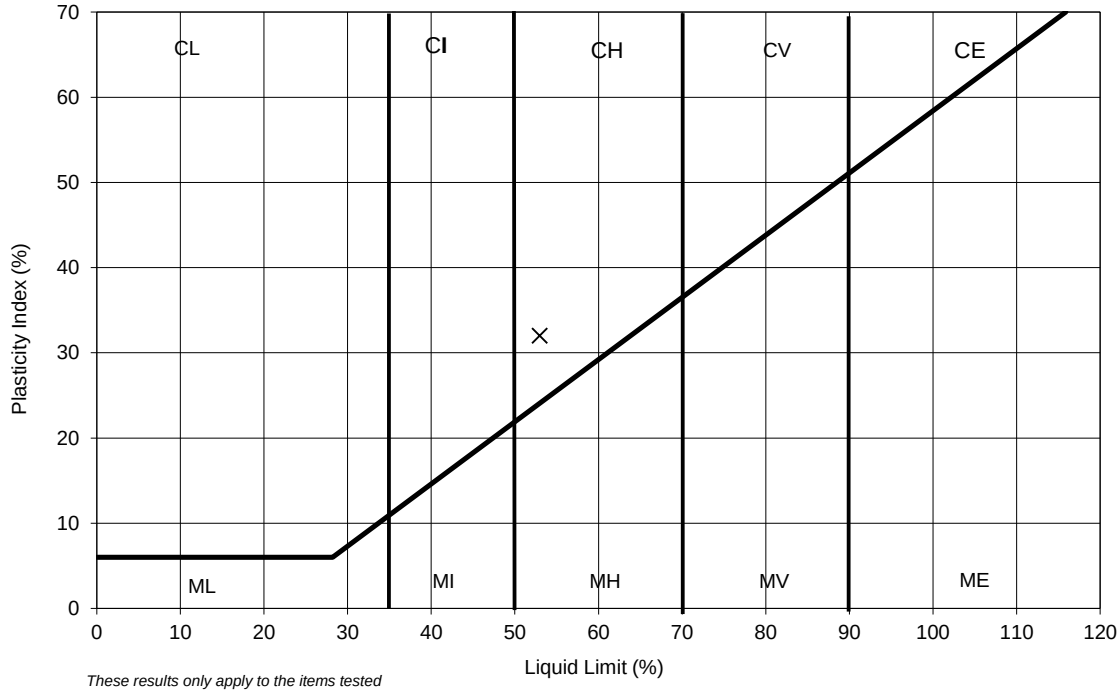
Preparation Method

Tested in natural condition

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

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Tel: 01923 711 288 Email: James@k4soils.com

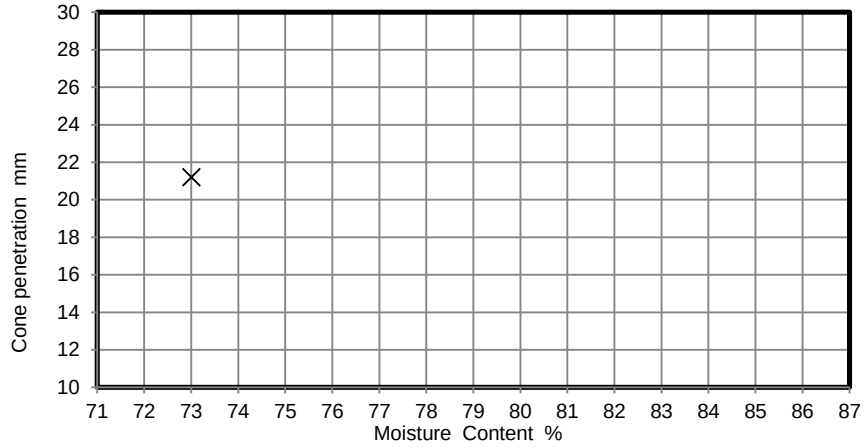
UKAS TESTING

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP01
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top m	0.50
Soil Description	Light orangish brown slightly mottled light bluish grey silty CLAY with rare fine gravel			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	27/11/2024



WATER CONTENT	**30.3**	**%**
% PASSING 425µm SIEVE	**99**	**%**
LIQUID LIMIT	**72**	**%**
PLASTIC LIMIT	**27**	**%**
PLASTICITY INDEX	**45**	**%**

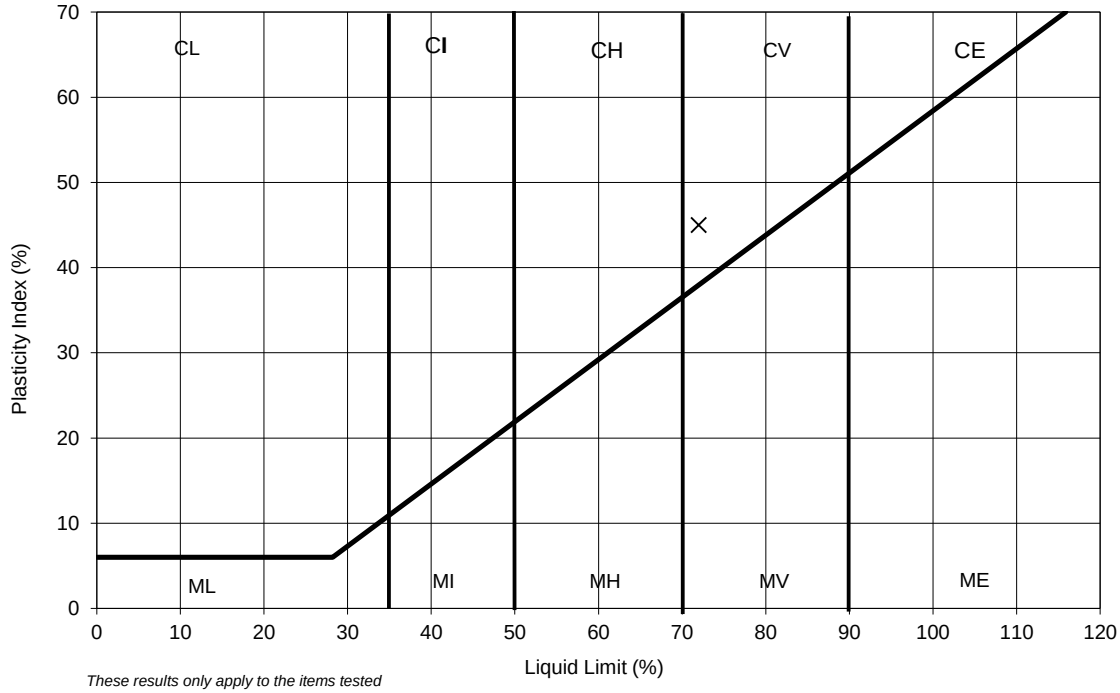
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

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Tel: 01923 711 288 Email: James@k4soils.com

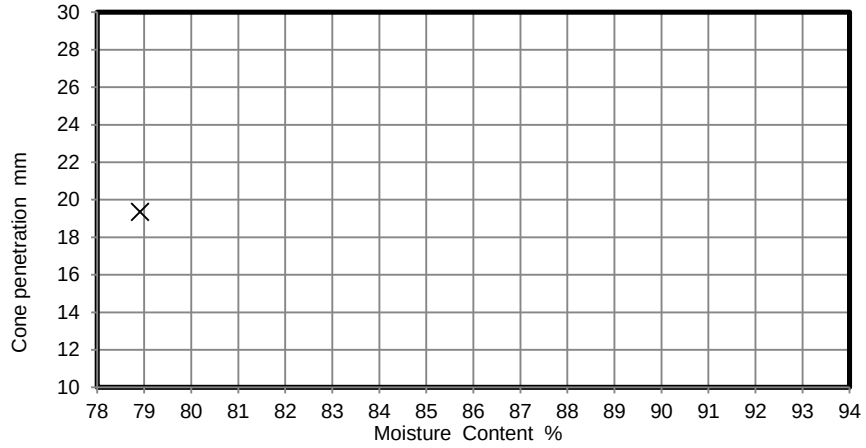
UKAS TESTING

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP03
Site Name	Land South of Mortimers Lane			Sample No.	2
Project No.	GE22375	Client	GESL	Depth Top m	1.00
Soil Description	Light orangish brown slightly mottled light bluish grey silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	27/11/2024



WATER CONTENT	**35.7**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**80**	**%**
PLASTIC LIMIT	**27**	**%**
PLASTICITY INDEX	**53**	**%**

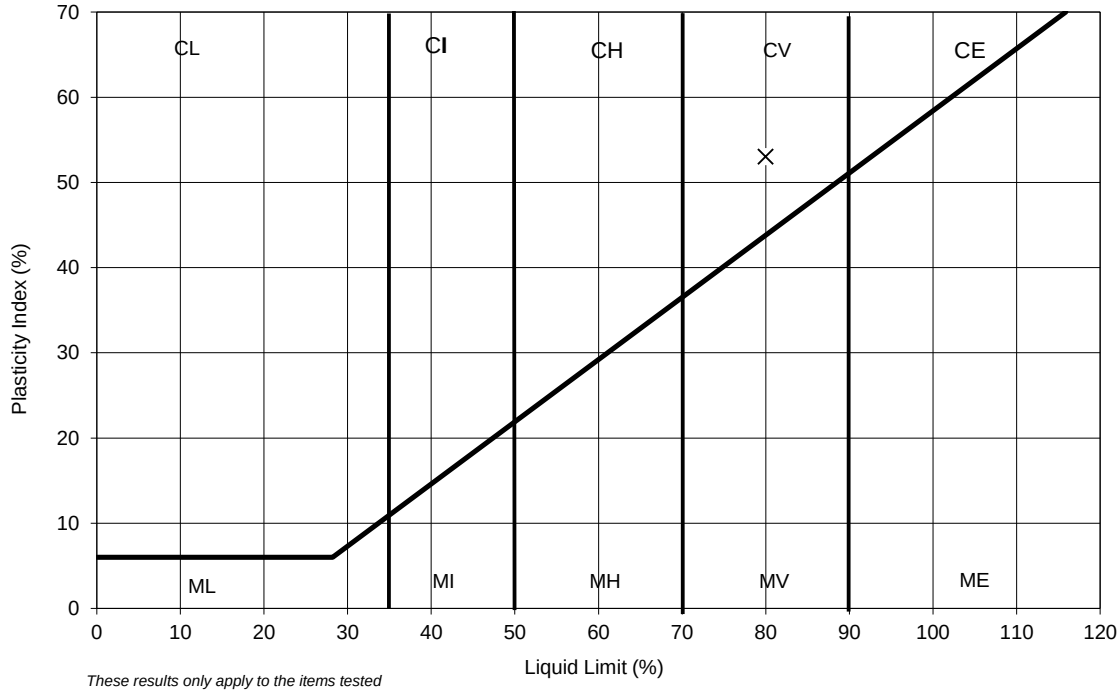
Preparation Method

Tested in natural condition

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

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TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

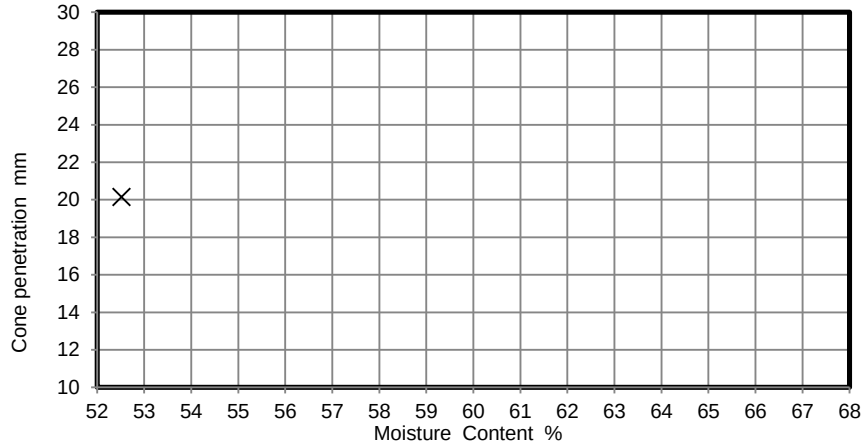
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Date: 04/12/2024

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Tel: 01923 711 288 Email: James@k4soils.com

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	36332
				Borehole/Pit No.	TP09
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top m	0.50
Soil Description	Orangish brown slightly mottled grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**25.2**	**%**
% PASSING 425µm SIEVE	**95**	**%**
LIQUID LIMIT	**52**	**%**
PLASTIC LIMIT	**22**	**%**
PLASTICITY INDEX	**30**	**%**

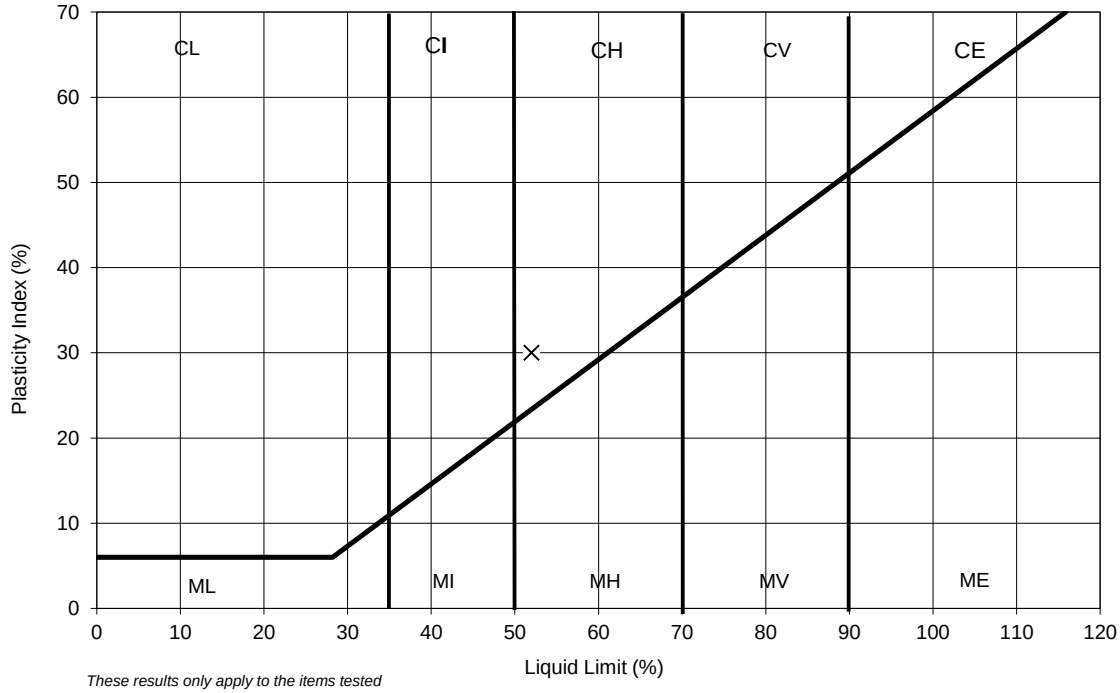
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



These results only apply to the items tested

NOTE: The report shall not be reproduced except in full without authority of the laboratory

TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

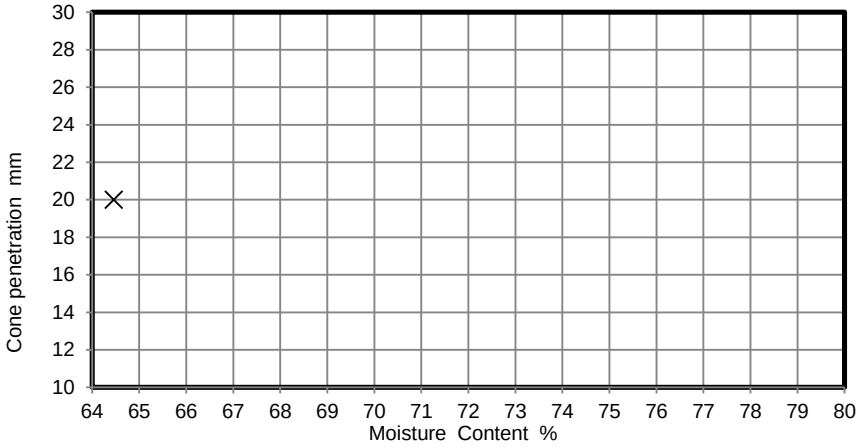
UKAS TESTING

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP11
Site Name	Land South of Mortimers Lane			Sample No.	3
Project No.	GE22375	Client	GESL	Depth Top m	1.50
Soil Description	Orangish brown slightly mottled bluish grey silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**29.1**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**64**	**%**
PLASTIC LIMIT	**25**	**%**
PLASTICITY INDEX	**39**	**%**

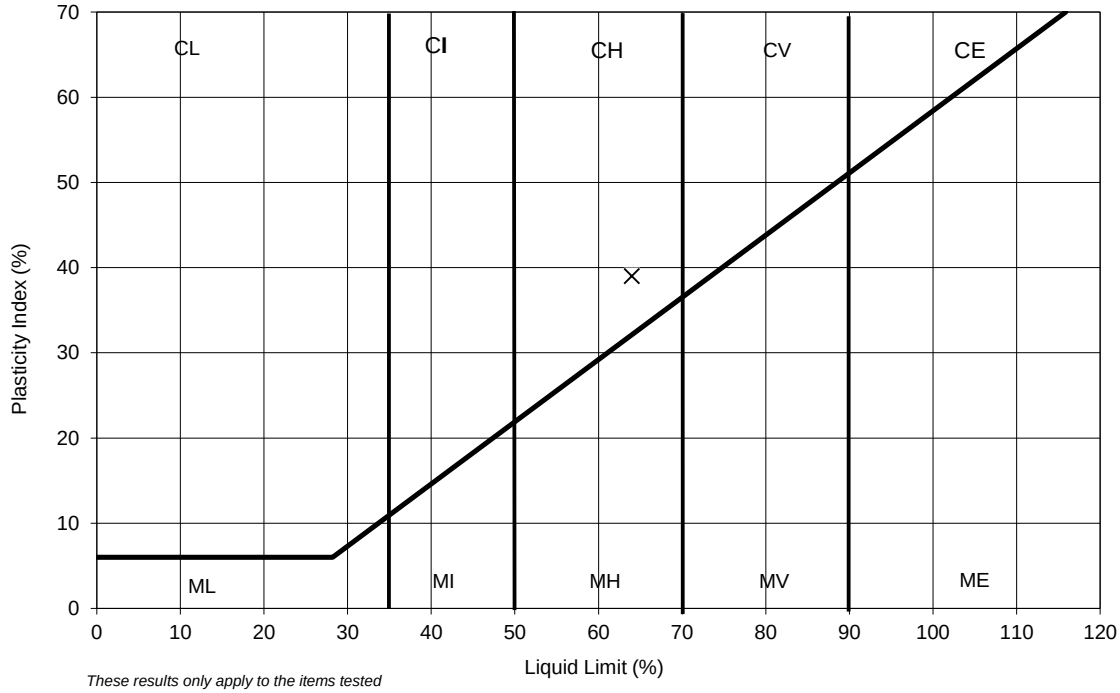
Preparation Method

Tested in natural condition

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

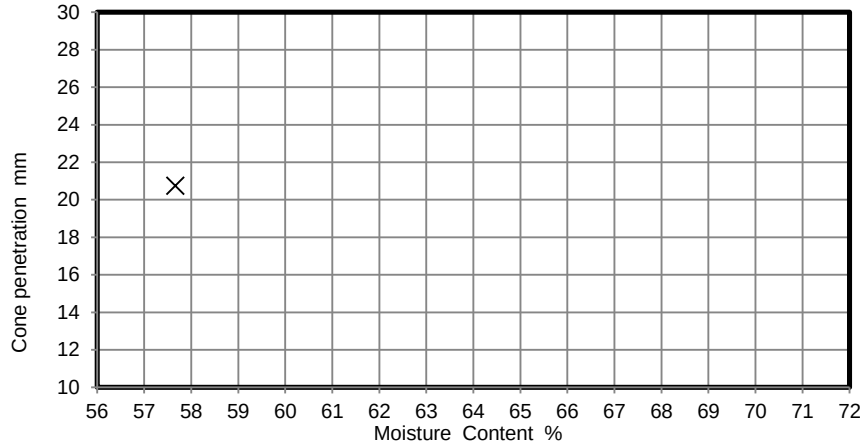
UKAS TESTING

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP17
Site Name	Land South of Mortimers Lane			Sample No.	2
Project No.	GE22375	Client	GESL	Depth Top m	1.00
Soil Description	Orangish brown slightly mottled bluish grey silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**33.4**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**57**	**%**
PLASTIC LIMIT	**26**	**%**
PLASTICITY INDEX	**31**	**%**

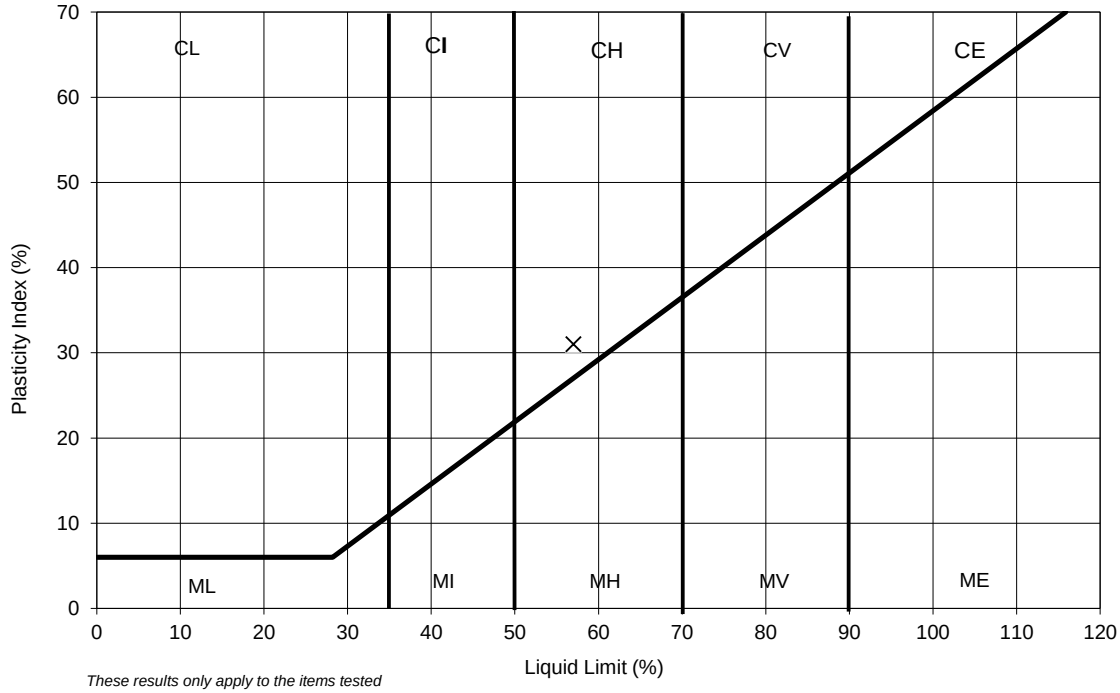
Preparation Method

Tested in natural condition

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

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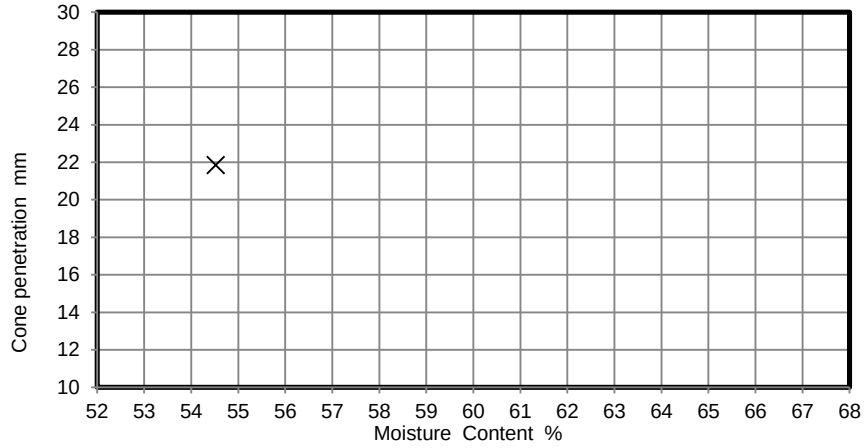
UKAS TESTING

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP24
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top m	0.50
Soil Description	Grey slightly mottled orangish brown silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**24.8**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**53**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**32**	**%**

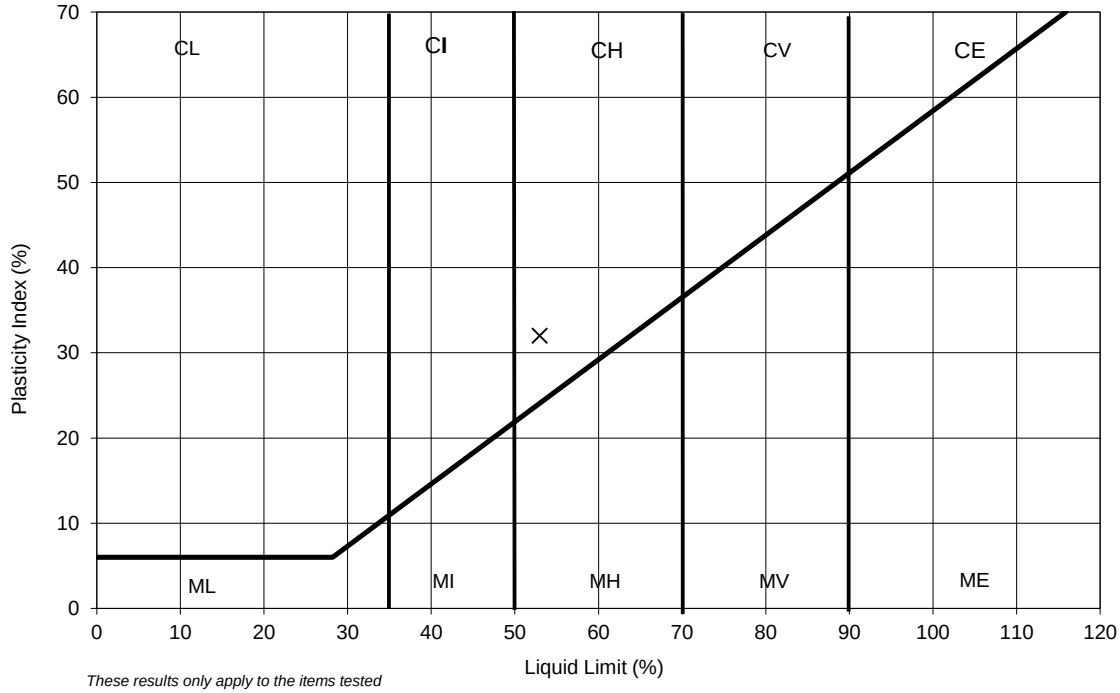
Preparation Method

Tested in natural condition

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

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BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

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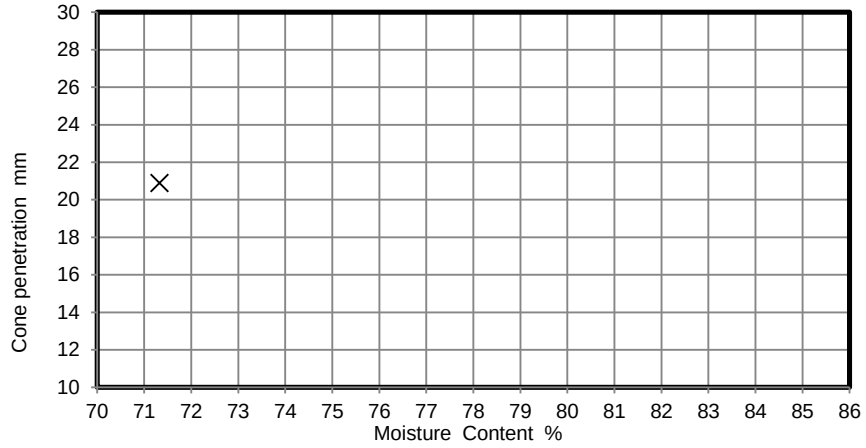
UKAS TESTING

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP28
Site Name	Land South of Mortimers Lane			Sample No.	2
Project No.	GE22375	Client	GESL	Depth Top m	1.00
Soil Description	Light reddish brown slightly mottled grey silty CLAY with rare fine gravel			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**29.8**	**%**
% PASSING 425µm SIEVE	**99**	**%**
LIQUID LIMIT	**70**	**%**
PLASTIC LIMIT	**28**	**%**
PLASTICITY INDEX	**42**	**%**

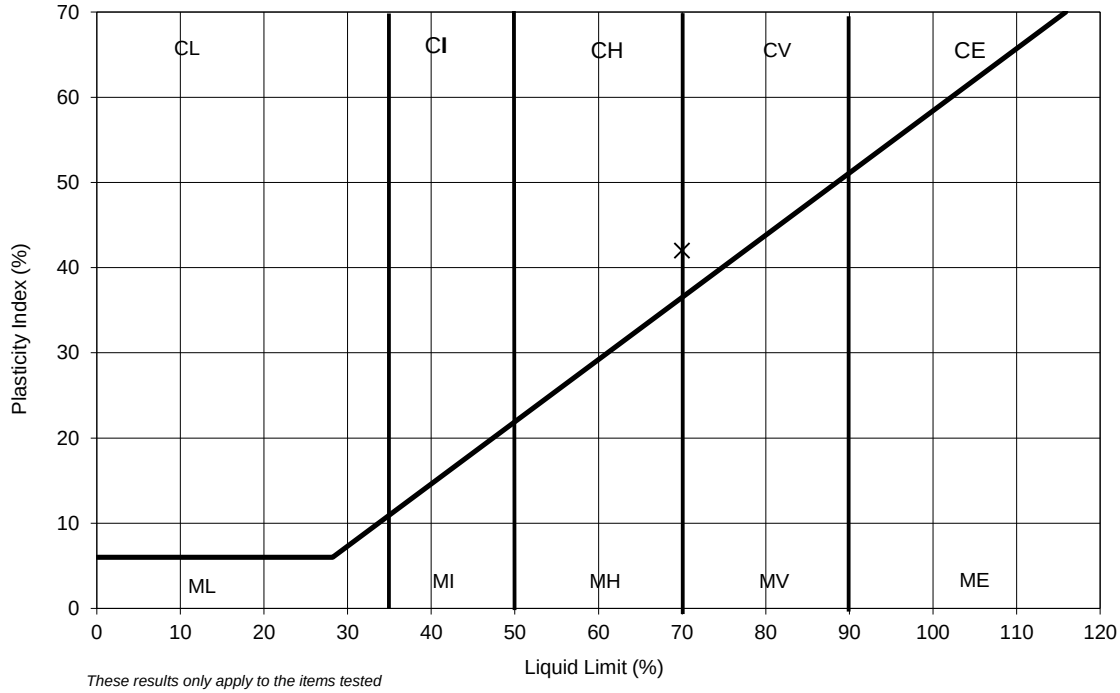
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

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BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

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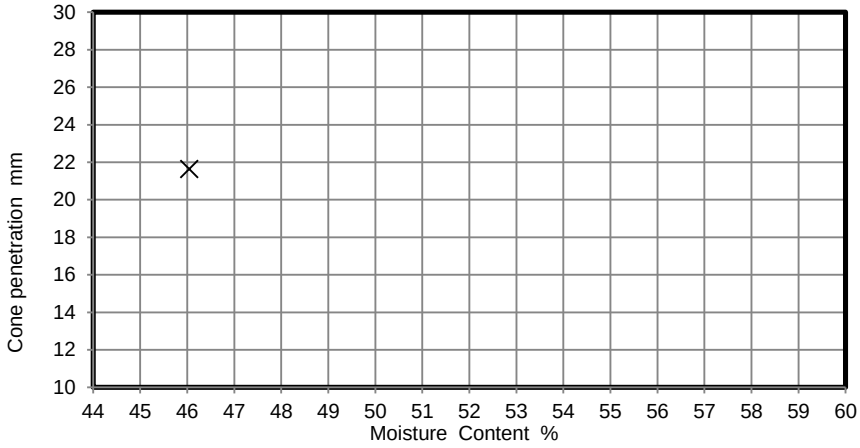
UKAS TESTING

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP31
Site Name	Land South of Mortimers Lane			Sample No.	3
Project No.	GE22375	Client	GESL	Depth Top m	1.50
Soil Description	Orangish brown slightly mottled grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**23.2**	**%**
% PASSING 425µm SIEVE	**85**	**%**
LIQUID LIMIT	**45**	**%**
PLASTIC LIMIT	**19**	**%**
PLASTICITY INDEX	**26**	**%**

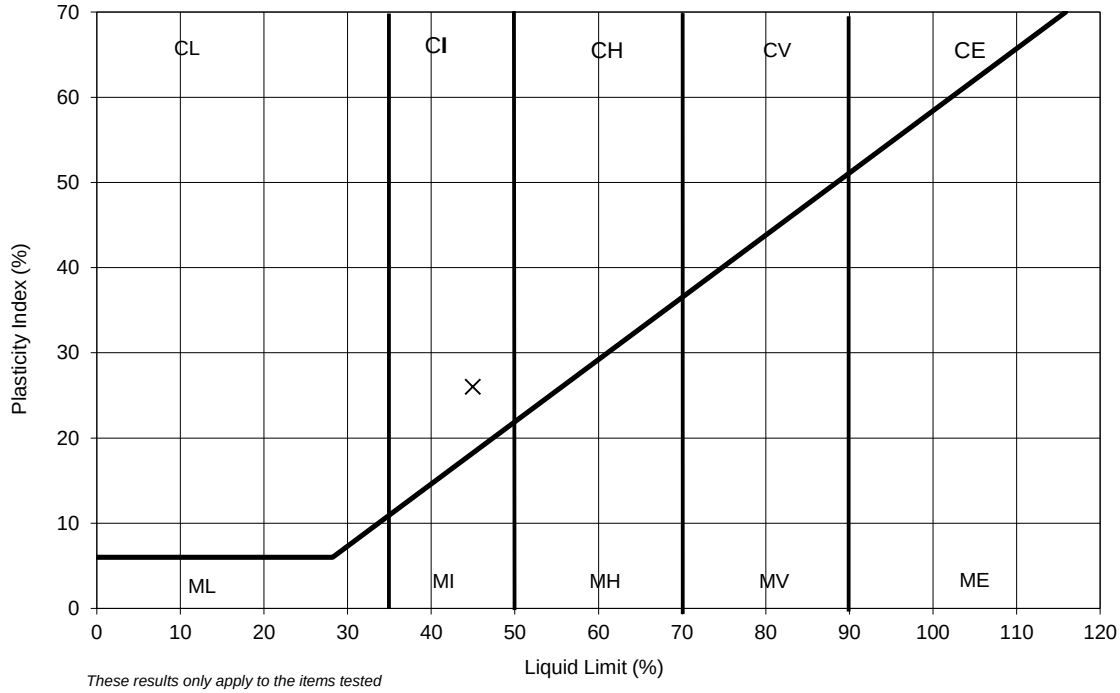
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

Checked and Approved

Initials: J.P
Date: 04/12/2024

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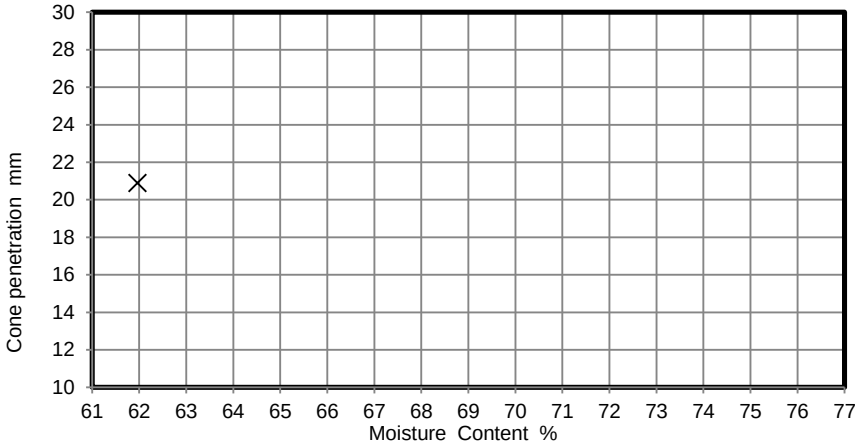
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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP32
Site Name	Land South of Mortimers Lane			Sample No.	4
Project No.	GE22375	Client	GESL	Depth Top m	2.00
Soil Description	Orangish brown slightly mottled grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**33.3**	**%**
% PASSING 425µm SIEVE	**95**	**%**
LIQUID LIMIT	**61**	**%**
PLASTIC LIMIT	**24**	**%**
PLASTICITY INDEX	**37**	**%**

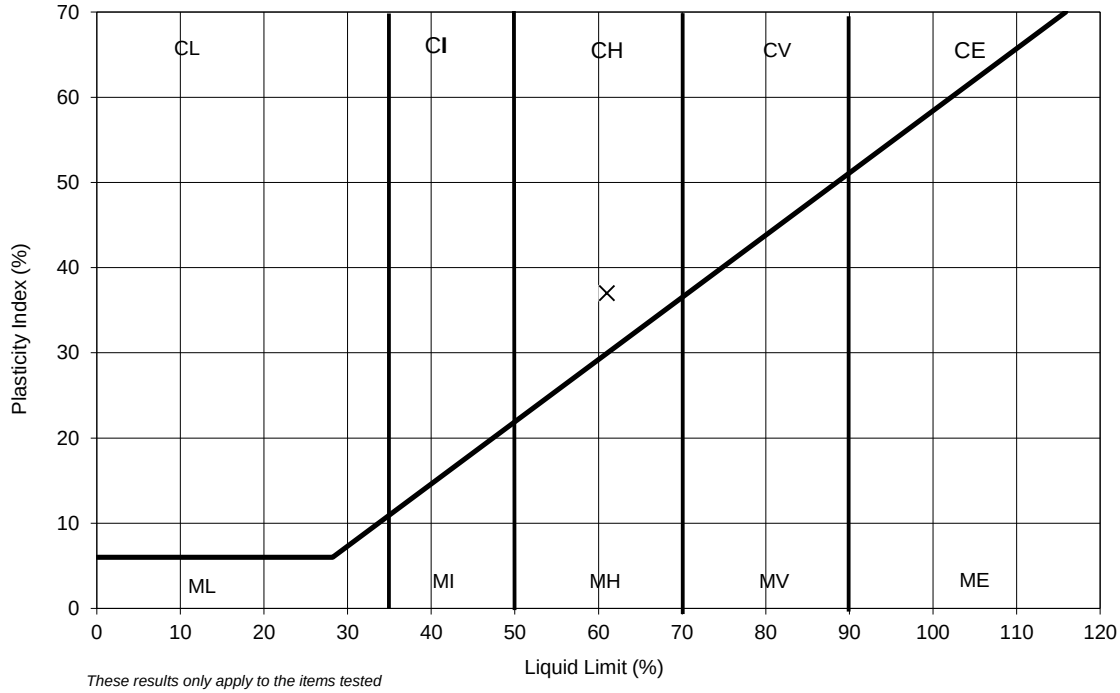
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

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Initials: J.P
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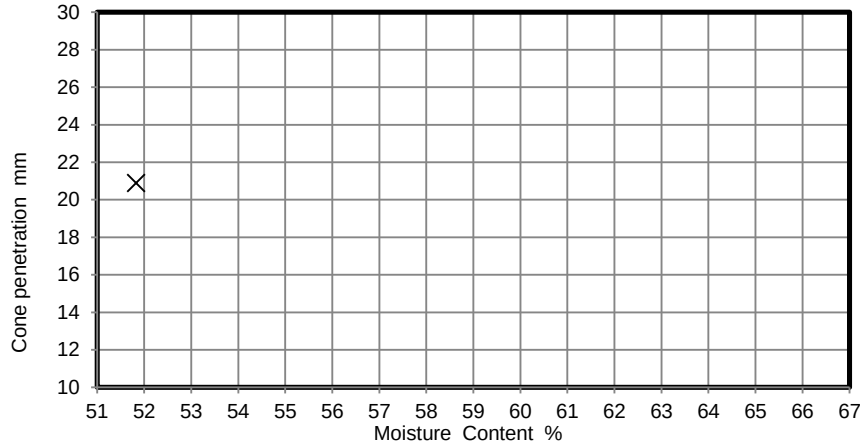
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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP35
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top m	0.50
Soil Description	Orangish brown slightly mottled grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**28.3**	**%**
% PASSING 425µm SIEVE	**95**	**%**
LIQUID LIMIT	**51**	**%**
PLASTIC LIMIT	**23**	**%**
PLASTICITY INDEX	**28**	**%**

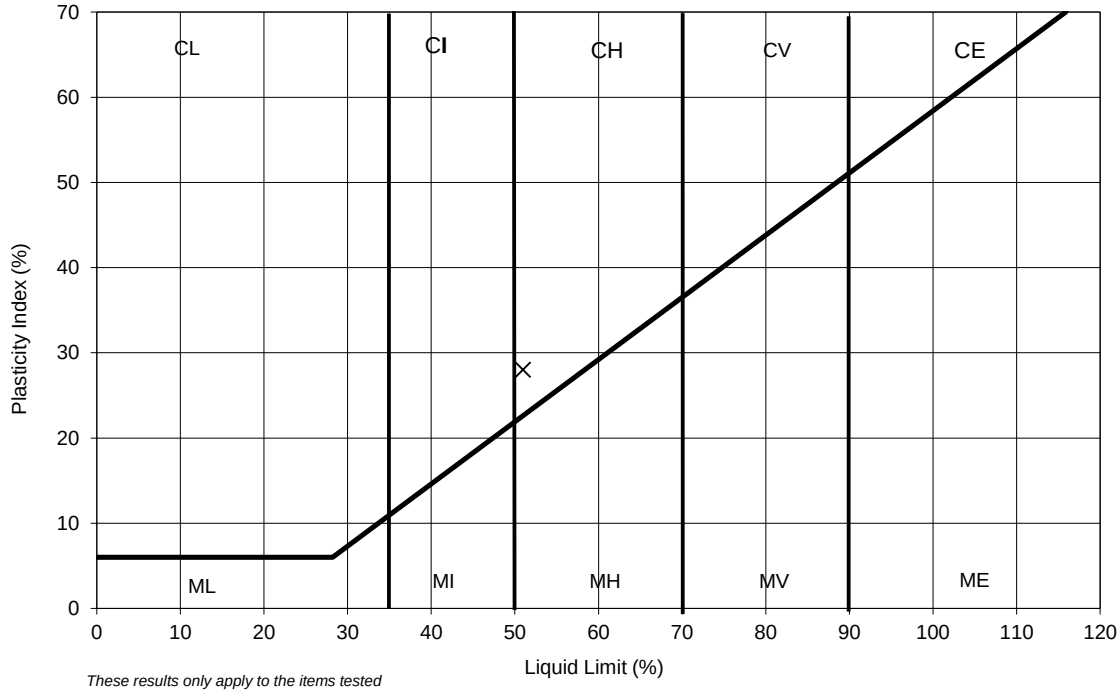
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

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BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

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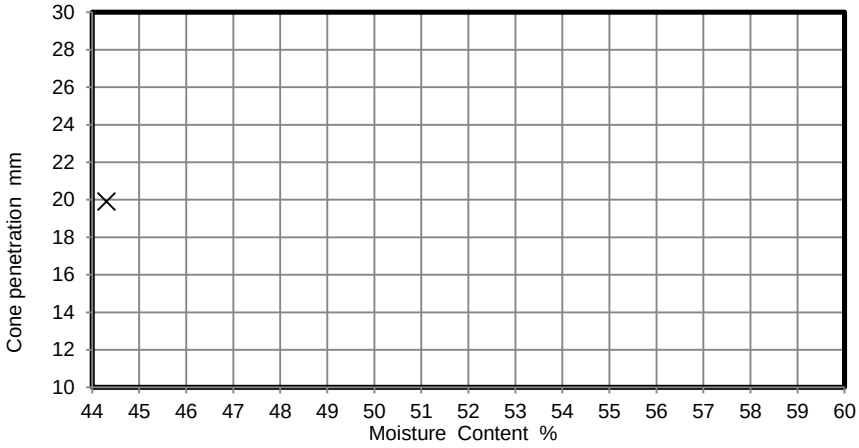
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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP36
Site Name	Land South of Mortimers Lane			Sample No.	2
Project No.	GE22375	Client	GESL	Depth Top m	1.00
Soil Description	Orangish brown slightly mottled grey silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**28.0**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**44**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**23**	**%**

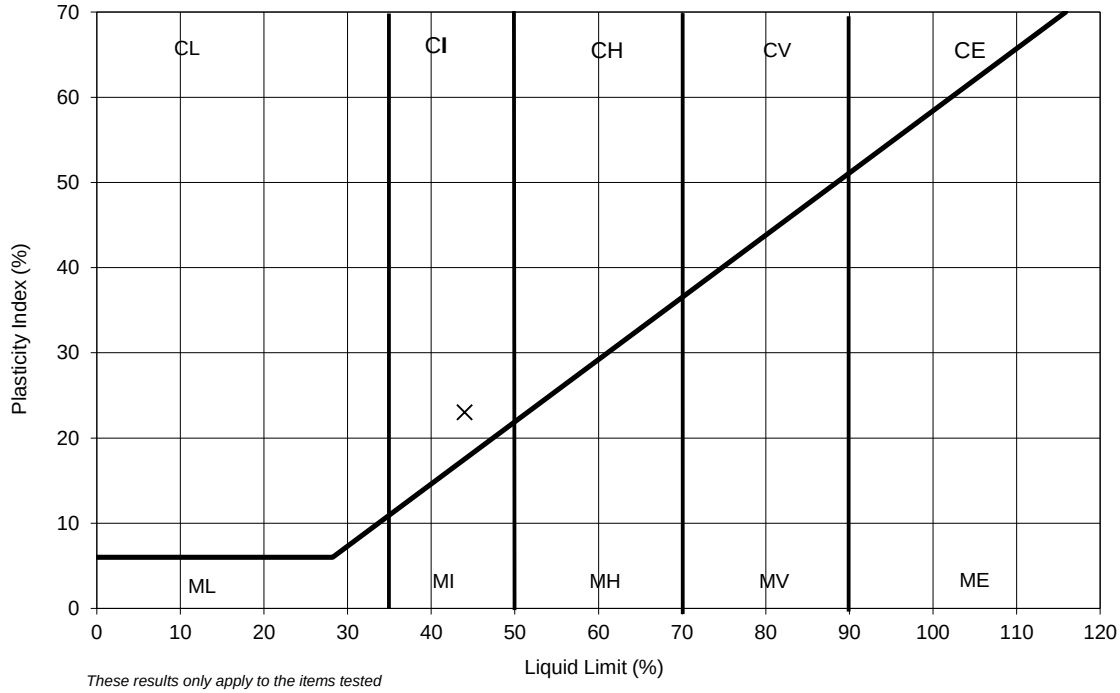
Preparation Method

Tested in natural condition

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

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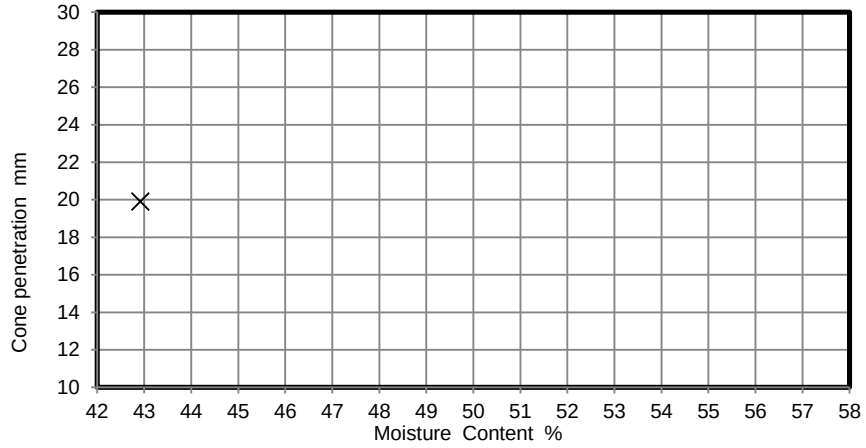
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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP37
Site Name	Land South of Mortimers Lane			Sample No.	2
Project No.	GE22375	Client	GESL	Depth Top m	1.00
Soil Description	Orangish brown slightly mottled grey silty CLAY with occasional carbonaceous deposits and rare fine gravel			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**23.3**	**%**
% PASSING 425µm SIEVE	**99**	**%**
LIQUID LIMIT	**43**	**%**
PLASTIC LIMIT	**19**	**%**
PLASTICITY INDEX	**24**	**%**

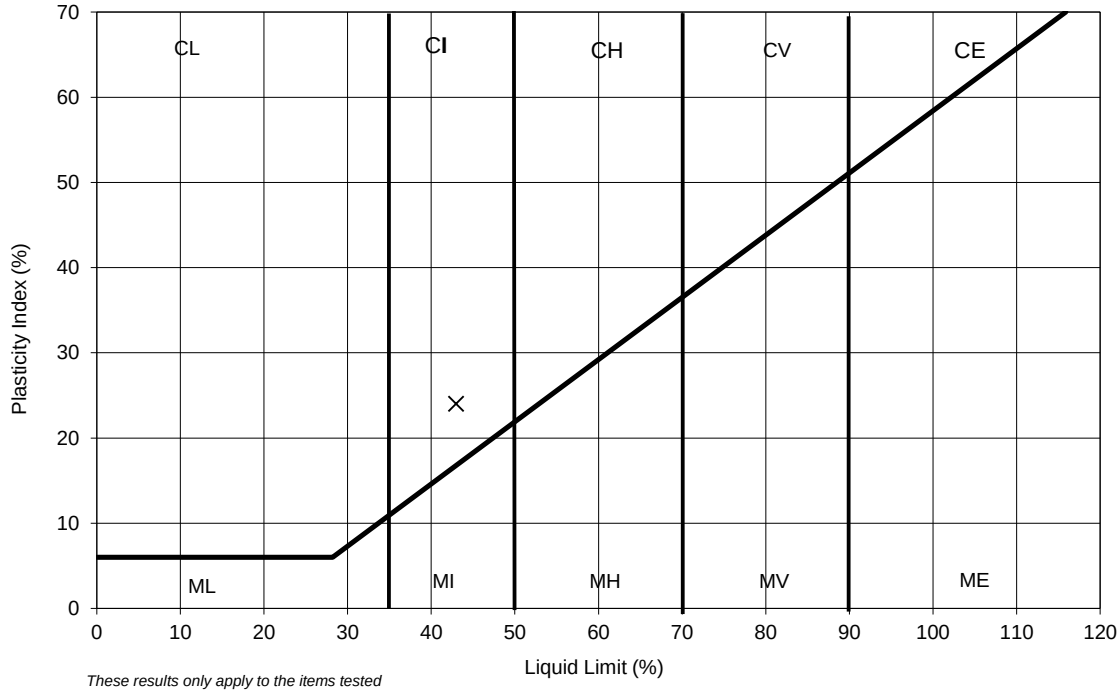
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

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BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

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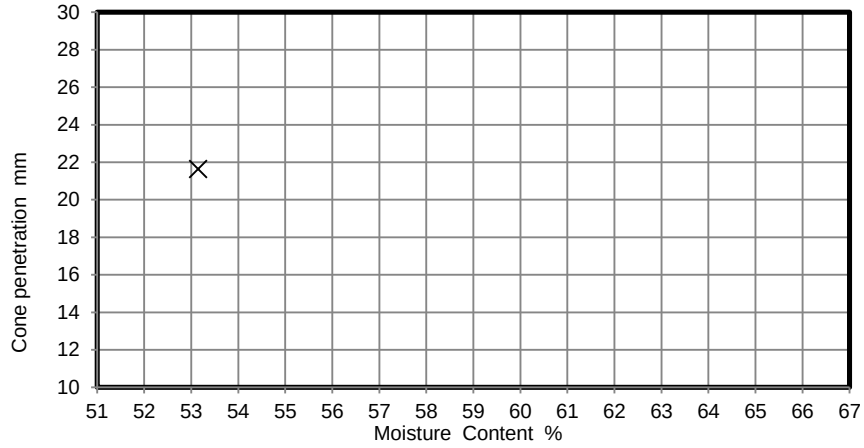
Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	36332
				Borehole/Pit No.	TP38
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top m	0.50
Soil Description	Orangish brown slightly mottled light grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)			Depth Base m	-
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
				Project Started	18/11/2024
				Date Tested	28/11/2024



WATER CONTENT	**24.5**	**%**
% PASSING 425µm SIEVE	**96**	**%**
LIQUID LIMIT	**52**	**%**
PLASTIC LIMIT	**20**	**%**
PLASTICITY INDEX	**32**	**%**

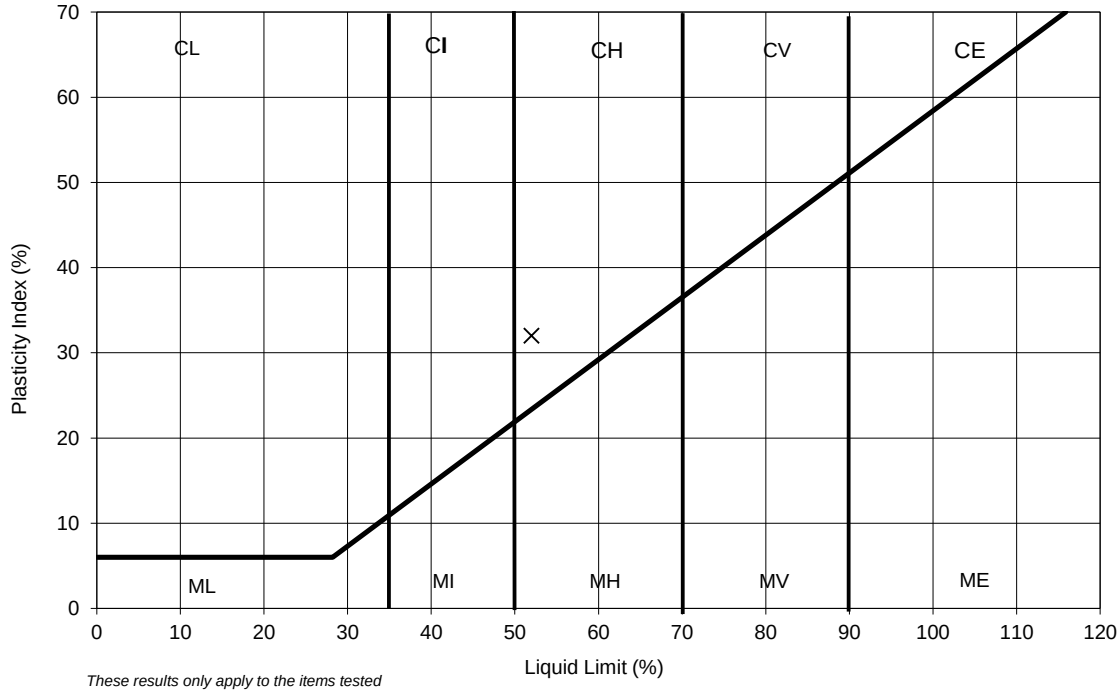
Preparation Method

Tested after >425um removed by hand

Remarks

Factors corresponding to the cone penetration and moisture content range in Table 1 (BS1377:1990 ; Part 2)

PLASTICITY INDEX



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TEST METHOD

BS EN ISO17892: Part 1:2014+A1:2022 Water Content
BS EN ISO 17892: Part 12:2018+A2:2022 Liquid Limit & Plastic Limit

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Date: 04/12/2024

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

UKAS TESTING

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

Summary of Water Content, Liquid Limit (1 point) and Plastic Limit Results

Job No.	Project Name	Programme	
36332	Land South of Mortimers Lane	Samples received	11/11/2024
		Schedule received	15/11/2024
Project No.	Client	Project started	18/11/2024
GE22375	GESL	Testing Started	27/11/2024

Hole No.	Sample				Soil Description	Water content	Passing 425µm	Preparation	LL	PL	PI	Remarks
	Ref	Top m	Base m	Type		%	%		%	%	%	
BH01	4	4.50	-	D	Dark grey and occasional brown silty CLAY with rare fine gravel	24.6	99	Tested after >425um removed by hand	44	21	23	
BH01	8	8.50	-	D	Dark grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)	24.4	97	Tested after >425um removed by hand	54	23	31	
BH01	14	14.50	-	D	Dark grey silty CLAY	23.3	100	Tested in natural condition	53	21	32	
TP01	1	0.50	-	D	Light orangish brown slightly mottled light bluish grey silty CLAY with rare fine gravel	30.3	99	Tested after >425um removed by hand	72	27	45	
TP03	2	1.00	-	D	Light orangish brown slightly mottled light bluish grey silty CLAY	35.7	100	Tested in natural condition	80	27	53	
TP09	1	0.50	-	D	Orangish brown slightly mottled grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)	25.2	95	Tested after >425um removed by hand	52	22	30	
TP11	3	1.50	-	D	Orangish brown slightly mottled bluish grey silty CLAY	29.1	100	Tested in natural condition	64	25	39	
TP17	2	1.00	-	D	Orangish brown slightly mottled bluish grey silty CLAY	33.4	100	Tested in natural condition	57	26	31	
TP24	1	0.50	-	D	Grey slightly mottled orangish brown silty CLAY	24.8	100	Tested in natural condition	53	21	32	
TP28	2	1.00	-	D	Light reddish brown slightly mottled grey silty CLAY with rare fine gravel	29.8	99	Tested after >425um removed by hand	70	28	42	
TP31	3	1.50	-	D	Orangish brown slightly mottled grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)	23.2	85	Tested after >425um removed by hand	45	19	26	
TP32	4	2.00	-	D	Orangish brown slightly mottled grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)	33.3	95	Tested after >425um removed by hand	61	24	37	

80g/300 cone used unless otherwise stated, Corretation factor for 1 point method carried out using Table 1 (BS1377: 1990, Part 2)

Test Methods: BS EN ISO 17892
Part 1: 2014+A1:2022 Water content
Part 12: 2018 +A2:2022 Liquid & plastic limit

These results only apply to the items tested
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Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved
Initials **J.P**
Date: 04/12/2024

2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

Summary of Water Content, Liquid Limit (1 point) and Plastic Limit Results

Job No.	Project Name	Programme	
36332	Land South of Mortimers Lane	Samples received	11/11/2024
		Schedule received	15/11/2024
Project No.	Client	Project started	18/11/2024
GE22375	GESL	Testing Started	27/11/2024

Hole No.	Sample				Soil Description	Water content	Passing 425µm	Preparation	LL	PL	PI	Remarks
	Ref	Top m	Base m	Type		%	%		%	%	%	
TP35	1	0.50	-	D	Orangish brown slightly mottled grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)	28.3	95	Tested after >425um removed by hand	51	23	28	
TP36	2	1.00	-	D	Orangish brown slightly mottled grey silty CLAY	28.0	100	Tested in natural condition	44	21	23	
TP37	2	1.00	-	D	Orangish brown slightly mottled grey silty CLAY with occasional carbonaceous deposits and rare fine gravel	23.3	99	Tested after >425um removed by hand	43	19	24	
TP38	1	0.50	-	D	Orangish brown slightly mottled light grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)	24.5	96	Tested after >425um removed by hand	52	20	32	

80g/300 cone used unless otherwise stated, Corretation factor for 1 point method carried out using Table 1 (BS1377: 1990, Part 2)

Test Methods: BS EN ISO 17892
Part 1: 2014+A1:2022 Water content
Part 12: 2018 +A2:2022 Liquid & plastic limit

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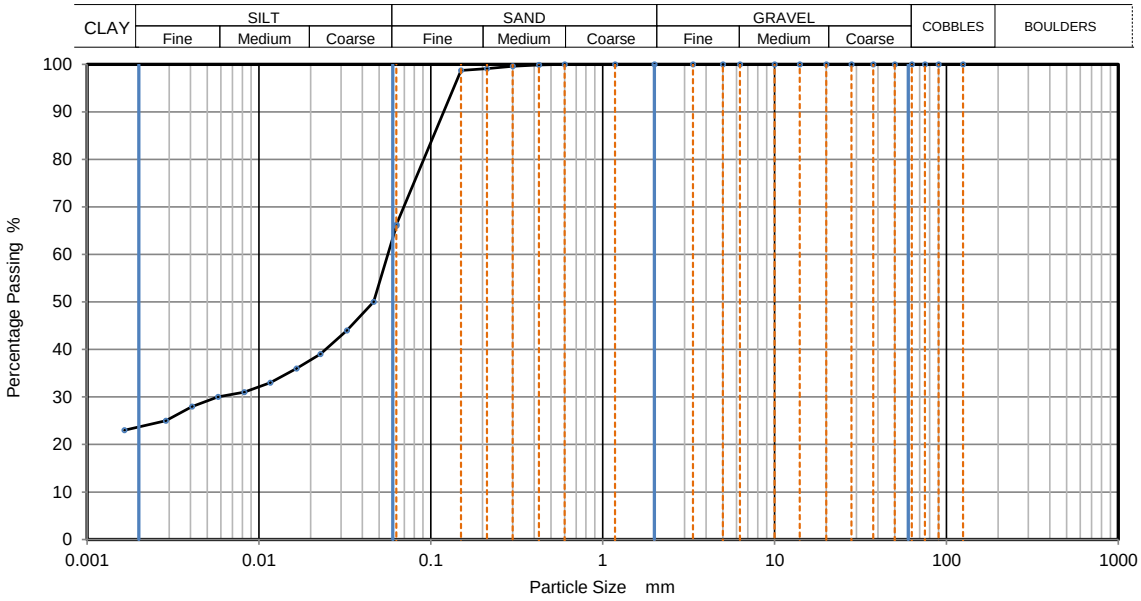
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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

PARTICLE SIZE DISTRIBUTION

				Job Ref	36332
				Borehole/Pit No.	TP04
Site Name	Land South of Mortimers Lane			Sample No.	3
Project No.	GE22375	Client	GESL	Depth Top	1.50 m
Soil Description	Orangish brown and bluish grey slightly fine sandy silty CLAY			Depth Base	- m
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS EN ISO 17892 Part 4: 2016			Project started	18/11/2024
				Date tested	25/11/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	66
90	100	0.0465	50
75	100	0.0325	44
63	100	0.0228	39
50	100	0.0165	36
37.5	100	0.0116	33
28	100	0.0082	31
20	100	0.0058	30
14	100	0.0041	28
10	100	0.0029	25
6.3	100	0.0016	23
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100	Particle density (assumed)	
0.425	100	2.70 Mg/m3	
0.3	100		
0.212	99		
0.15	99		
0.063	66		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	34
Silt	42
Clay	24

Grading Analysis		
D100	mm	
D60	mm	0.0559
D30	mm	0.00583
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with ISO17892 Part 4 unless noted below

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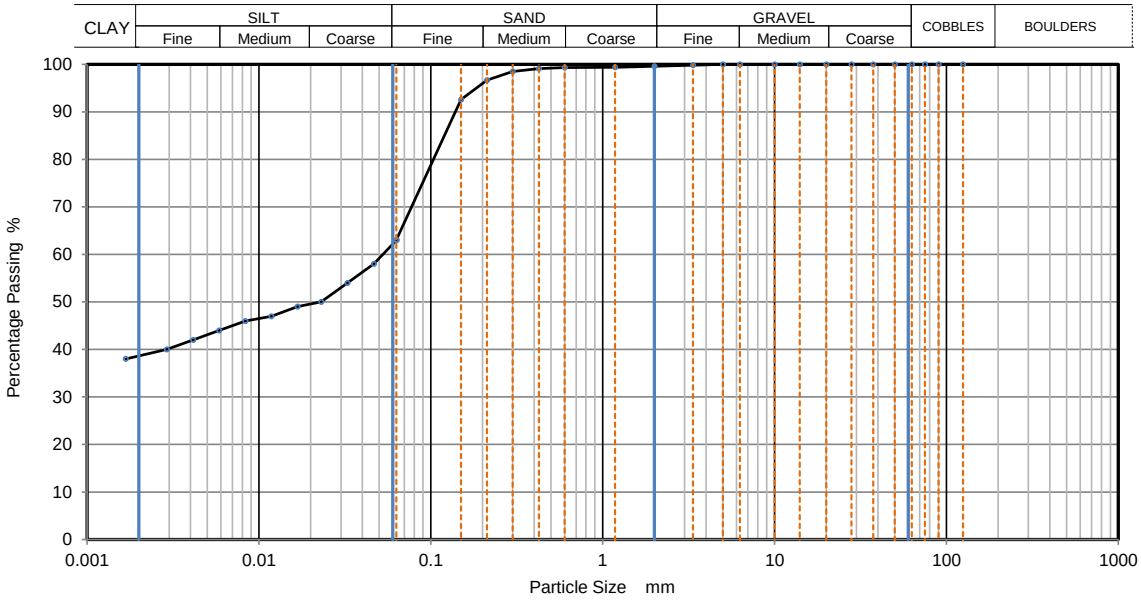
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MSF-5-R3

PARTICLE SIZE DISTRIBUTION

				Job Ref	36332
				Borehole/Pit No.	TP15
Site Name	Land South of Mortimers Lane			Sample No.	2
Project No.	GE22375	Client	GESL	Depth Top	1.00 m
Soil Description	Orangish brown and bluish grey sandy silty CLAY			Depth Base	- m
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS EN ISO 17892 Part 4: 2016			Project started	18/11/2024
				Date tested	26/11/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0630	63
90	100	0.0466	58
75	100	0.0327	54
63	100	0.0230	50
50	100	0.0167	49
37.5	100	0.0118	47
28	100	0.0083	46
20	100	0.0059	44
14	100	0.0041	42
10	100	0.0029	40
6.3	100	0.0017	38
5	100		
3.35	100		
2	100		
1.18	99		
0.6	99	Particle density (assumed)	
0.425	99	2.70	Mg/m3
0.3	99		
0.212	97		
0.15	93		
0.063	63		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	37
Silt	24
Clay	39

Grading Analysis		
D100	mm	
D60	mm	0.0518
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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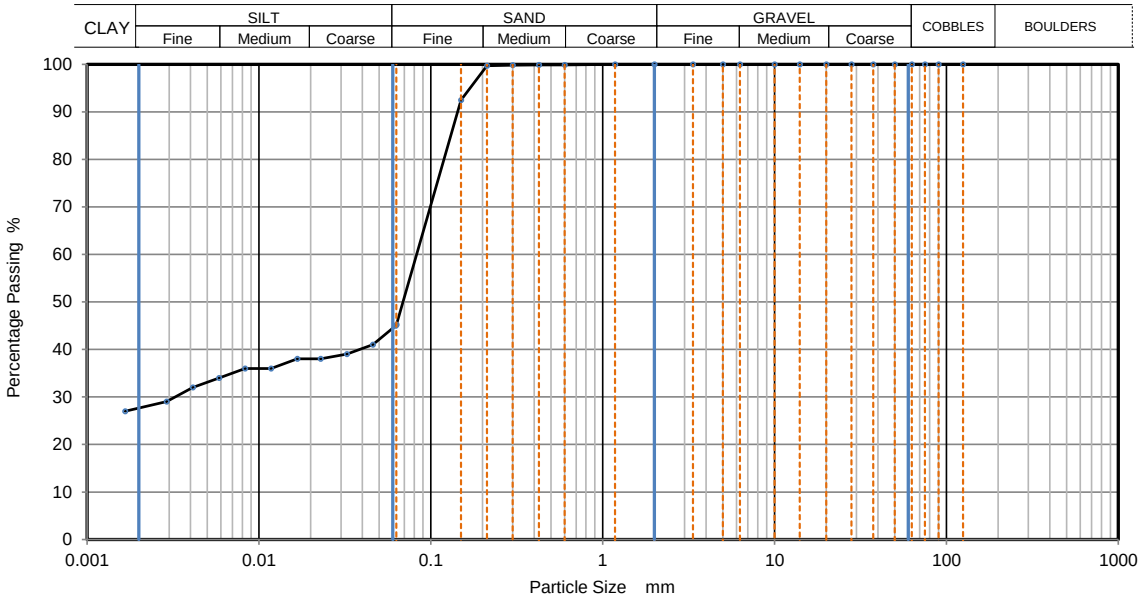
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

PARTICLE SIZE DISTRIBUTION

				Job Ref	36332
				Borehole/Pit No.	TP19
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top	0.50 m
Soil Description	Orangish brown and bluish grey sandy silty CLAY			Depth Base	- m
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS EN ISO 17892 Part 4: 2016			Project started	18/11/2024
				Date tested	26/11/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0624	45
90	100	0.0460	41
75	100	0.0324	39
63	100	0.0229	38
50	100	0.0167	38
37.5	100	0.0118	36
28	100	0.0083	36
20	100	0.0059	34
14	100	0.0041	32
10	100	0.0029	29
6.3	100	0.0017	27
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100	Particle density (assumed)	
0.425	100	2.70 Mg/m3	
0.3	100		
0.212	100		
0.15	93		
0.063	45		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	55
Silt	17
Clay	28

Grading Analysis		
D100	mm	
D60	mm	0.0826
D30	mm	0.00313
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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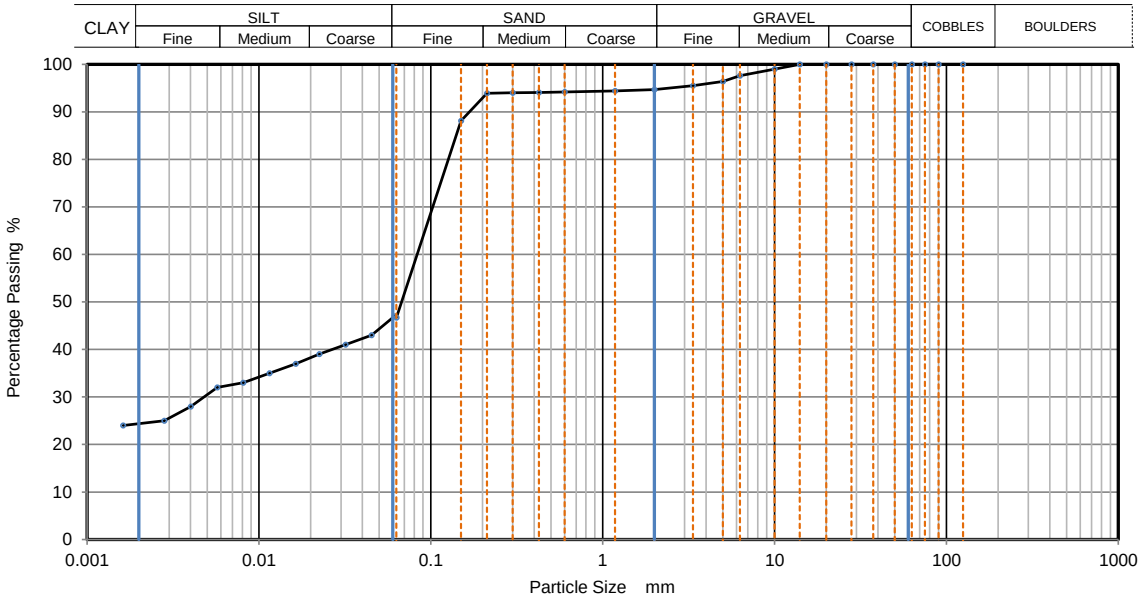
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PARTICLE SIZE DISTRIBUTION

				Job Ref	36332
				Borehole/Pit No.	TP24
Site Name	Land South of Mortimers Lane			Sample No.	4
Project No.	GE22375	Client	GESL	Depth Top	2.00 m
Soil Description	Orangish brown slightly mottled light grey slightly gravelly sandy silty CLAY (gravel is fm and sub-rounded sandstone fragments)			Depth Base	- m
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS EN ISO 17892 Part 4: 2016			Project started	18/11/2024
				Date tested	26/11/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0613	47
90	100	0.0452	43
75	100	0.0319	41
63	100	0.0224	39
50	100	0.0163	37
37.5	100	0.0115	35
28	100	0.0081	33
20	100	0.0057	32
14	100	0.0040	28
10	99	0.0028	25
6.3	98	0.0016	24
5	96		
3.35	96		
2	95		
1.18	94		
0.6	94	Particle density (assumed)	
0.425	94	2.70	Mg/m3
0.3	94		
0.212	94		
0.15	88		
0.063	47		

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	48
Silt	23
Clay	24

Grading Analysis		
D100	mm	
D60	mm	0.0832
D30	mm	0.00496
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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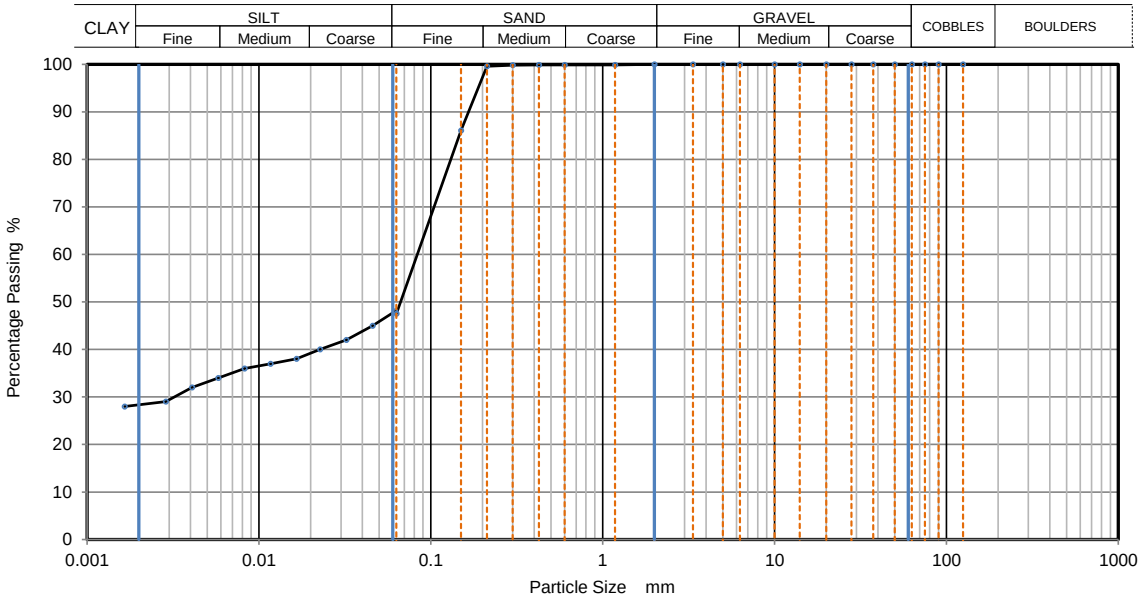
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MSF-5-R3

PARTICLE SIZE DISTRIBUTION

				Job Ref	36332
				Borehole/Pit No.	TP25
Site Name	Land South of Mortimers Lane			Sample No.	2
Project No.	GE22375	Client	GESL	Depth Top	1.00 m
Soil Description	Orangish brown slightly mottled bluish grey fine sandy silty CLAY			Depth Base	- m
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS EN ISO 17892 Part 4: 2016			Project started	18/11/2024
				Date tested	26/11/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0619	48
90	100	0.0459	45
75	100	0.0322	42
63	100	0.0227	40
50	100	0.0165	38
37.5	100	0.0117	37
28	100	0.0082	36
20	100	0.0058	34
14	100	0.0041	32
10	100	0.0029	29
6.3	100	0.0017	28
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100	Particle density (assumed)	
0.425	100	2.70 Mg/m3	
0.3	100		
0.212	100		
0.15	86		
0.063	48		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	52
Silt	20
Clay	28

Grading Analysis		
D100	mm	
D60	mm	0.0834
D30	mm	0.00327
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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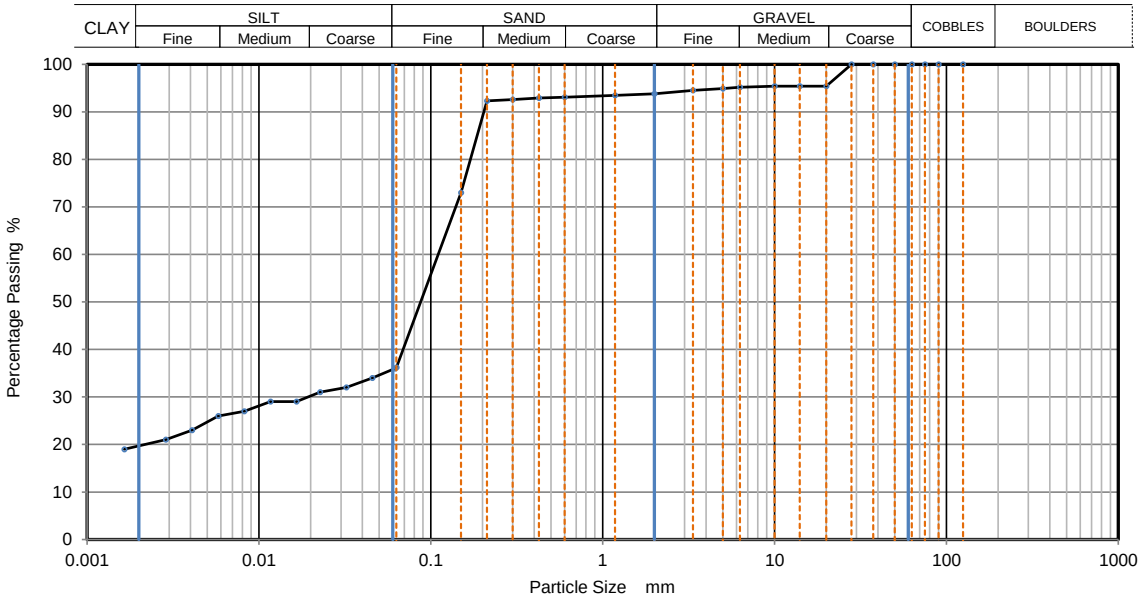
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MSF-5-R3

PARTICLE SIZE DISTRIBUTION

				Job Ref	36332
				Borehole/Pit No.	TP28
Site Name	Land South of Mortimers Lane			Sample No.	5
Project No.	GE22375	Client	GESL	Depth Top	2.50 m
Soil Description	Orangish brown and light grey slightly gravelly fine sandy silty CLAY (gravel is fmc and sub-rounded)			Depth Base	- m
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS EN ISO 17892 Part 4: 2016			Project started	18/11/2024
				Date tested	26/11/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0618	36
90	100	0.0457	34
75	100	0.0322	32
63	100	0.0227	31
50	100	0.0165	29
37.5	100	0.0117	29
28	100	0.0082	27
20	95	0.0058	26
14	95	0.0041	23
10	95	0.0029	21
6.3	95	0.0016	19
5	95		
3.35	95		
2	94		
1.18	94		
0.6	93	Particle density (assumed)	
0.425	93	2.70	Mg/m3
0.3	93		
0.212	92		
0.15	73		
0.063	36		

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	57
Silt	17
Clay	20

Grading Analysis		
D100	mm	
D60	mm	0.11
D30	mm	0.0195
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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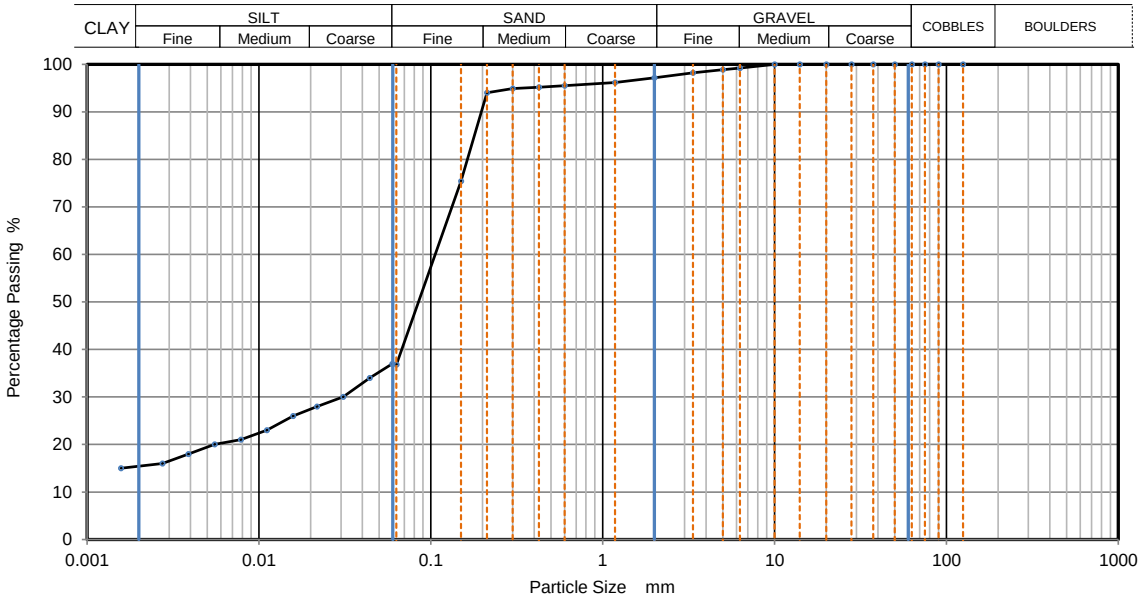
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MSF-5-R3

PARTICLE SIZE DISTRIBUTION

Job Ref	36332				
Borehole/Pit No.	TP29				
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top	0.50 m
Soil Description	Orangish brown slightly gravelly fine sandy silty CLAY with occasional rootlets (gravel is fm sandstone fragments and flint)			Depth Base	- m
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS EN ISO 17892 Part 4: 2016			Project started	18/11/2024
				Date tested	26/11/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0596	37
90	100	0.0441	34
75	100	0.0309	30
63	100	0.0218	28
50	100	0.0158	26
37.5	100	0.0111	23
28	100	0.0078	21
20	100	0.0055	20
14	100	0.0039	18
10	100	0.0027	16
6.3	99	0.0016	15
5	99		
3.35	98		
2	97		
1.18	96		
0.6	96	Particle density (assumed)	
0.425	95	2.70	Mg/m3
0.3	95		
0.212	94		
0.15	75		
0.063	37		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	60
Silt	22
Clay	15

Grading Analysis		
D100	mm	
D60	mm	0.106
D30	mm	0.0311
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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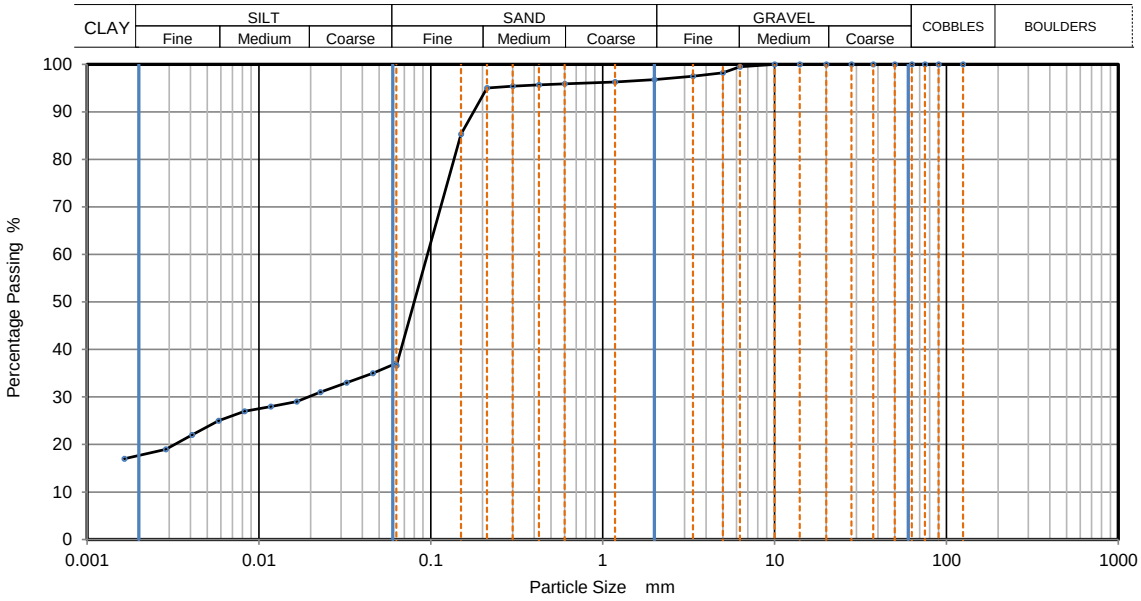
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MSF-5-R3

PARTICLE SIZE DISTRIBUTION

				Job Ref	36332
				Borehole/Pit No.	TP29
Site Name	Land South of Mortimers Lane			Sample No.	3
Project No.	GE22375	Client	GESL	Depth Top	1.50 m
Soil Description	Orangish brown slightly gravelly fine sandy silty CLAY (gravel is fine and sub-rounded sandstone fragments)			Depth Base	- m
				Sample Type	D
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS EN ISO 17892 Part 4: 2016			Project started	18/11/2024
				Date tested	26/11/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0620	37
90	100	0.0459	35
75	100	0.0323	33
63	100	0.0228	31
50	100	0.0166	29
37.5	100	0.0117	28
28	100	0.0082	27
20	100	0.0058	25
14	100	0.0041	22
10	100	0.0029	19
6.3	100	0.0016	17
5	98		
3.35	98		
2	97		
1.18	96		
0.6	96	Particle density (assumed)	
0.425	96	2.70 Mg/m3	
0.3	95		
0.212	95		
0.15	85		
0.063	37		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	60
Silt	19
Clay	18

Grading Analysis		
D100	mm	
D60	mm	0.0956
D30	mm	0.0197
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R3

California Bearing Ratio (CBR)

Job Ref	36332				
Borehole/Pit No.	TP04				
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top	0.50 m
Soil Description	Brown slightly gravelly slightly sandy silty CLAY (gravel is fmc and sub-angular to rounded)			Depth Base	- m
				Sample Type	B
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS1377 : Part 4 : 1990, clause 7			Project Started	18/11/2024
				Date Tested	25/11/2024

Specimen Preparation

Condition: REMOULDED

Details: Recompacted with specified standard effort using 2.5kg rammer

Material retained on 20mm sieve removed: 1 %

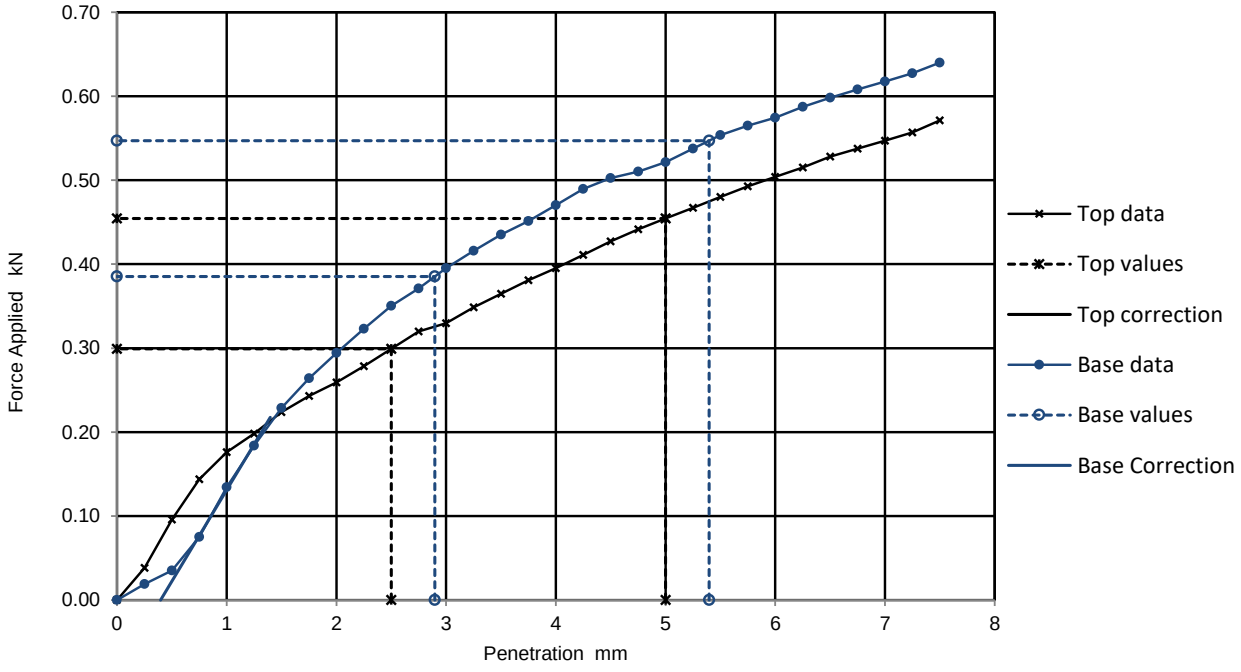
Initial Specimen details

Bulk density	1.99	Mg/m3
Dry density	1.62	Mg/m3
Moisture content	23	%

Soaking details

Period of soaking	5	days
Time to surface	5	days
Amount of swell recorded	0.02	mm
Surcharge applied	6	kg
	4	kPa

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Moisture Content %
TOP	No	2.3	2.3	2.3	N/A	24
BASE	Yes	2.9	2.7	2.9		23

Remarks

1

Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
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Checked and Approved

Initials: **J.P**

Date: 04/12/2024

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

California Bearing Ratio (CBR)

Job Ref	36332				
Borehole/Pit No.	TP29				
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top	1.00 m
Soil Description	Orangish brown sandy silty CLAY			Depth Base	- m
				Sample Type	B
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS1377 : Part 4 : 1990, clause 7			Project Started	18/11/2024
				Date Tested	25/11/2024

Specimen Preparation

Condition: REMOULDED

Details: Recompacted with specified standard effort using 2.5kg rammer

Material retained on 20mm sieve removed: 0 %

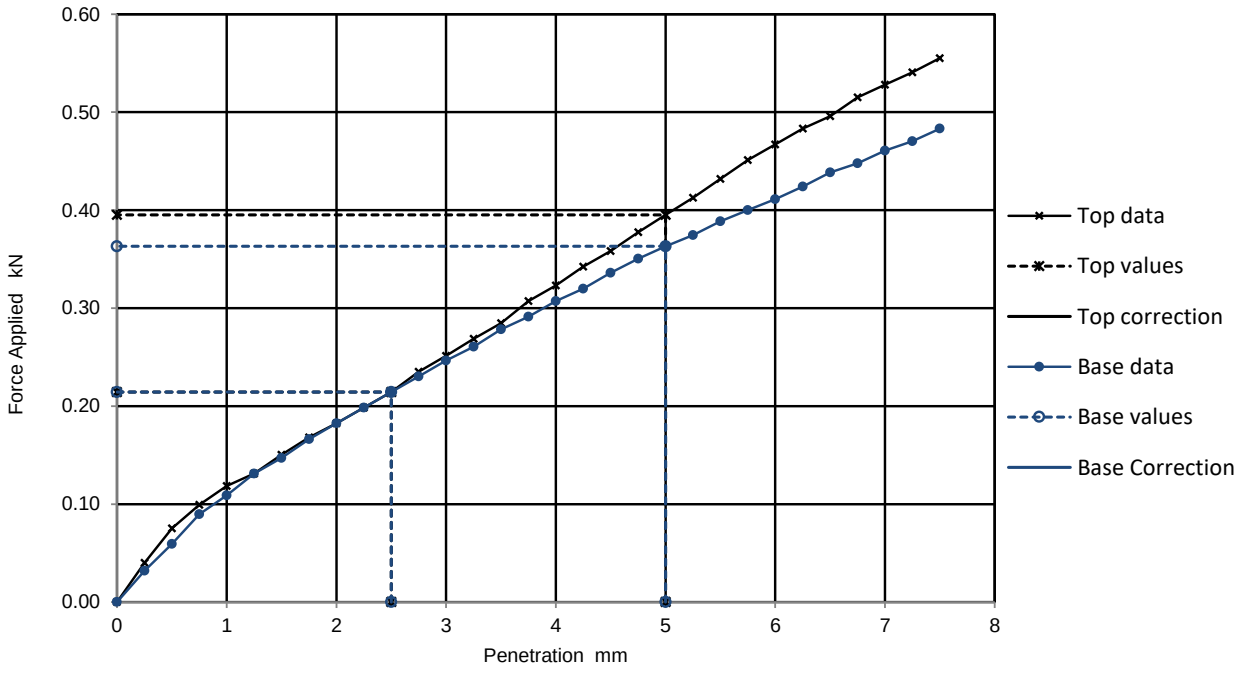
Initial Specimen details

Bulk density	2.01	Mg/m3
Dry density	1.63	Mg/m3
Moisture content	24	%

Soaking details

Period of soaking	5	days
Time to surface	5	days
Amount of swell recorded	0.00	mm
Surcharge applied	6	kg
	4	kPa

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Moisture Content %
TOP	No	1.6	2.0	2.0	1.9	23
BASE	No	1.6	1.8	1.8		23

Remarks

Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: **J.P**

Date: 04/12/2024

UKAS TESTING 2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

California Bearing Ratio (CBR)

Job Ref	36332				
Borehole/Pit No.	TP35				
Site Name	Land South of Mortimers Lane			Sample No.	1
Project No.	GE22375	Client	GESL	Depth Top	0.50 m
Soil Description	Brown slightly gravelly slightly sandy silty CLAY with occasional fine roots (gravel is fmc and sub-rounded to rounded)			Depth Base	- m
				Sample Type	B
				Samples received	11/11/2024
				Schedules received	15/11/2024
Test Method	BS1377 : Part 4 : 1990, clause 7			Project Started	18/11/2024
				Date Tested	25/11/2024

Specimen Preparation

Condition: REMOULDED

Details: Recompacted with specified standard effort using 2.5kg rammer

Material retained on 20mm sieve removed: 4 %

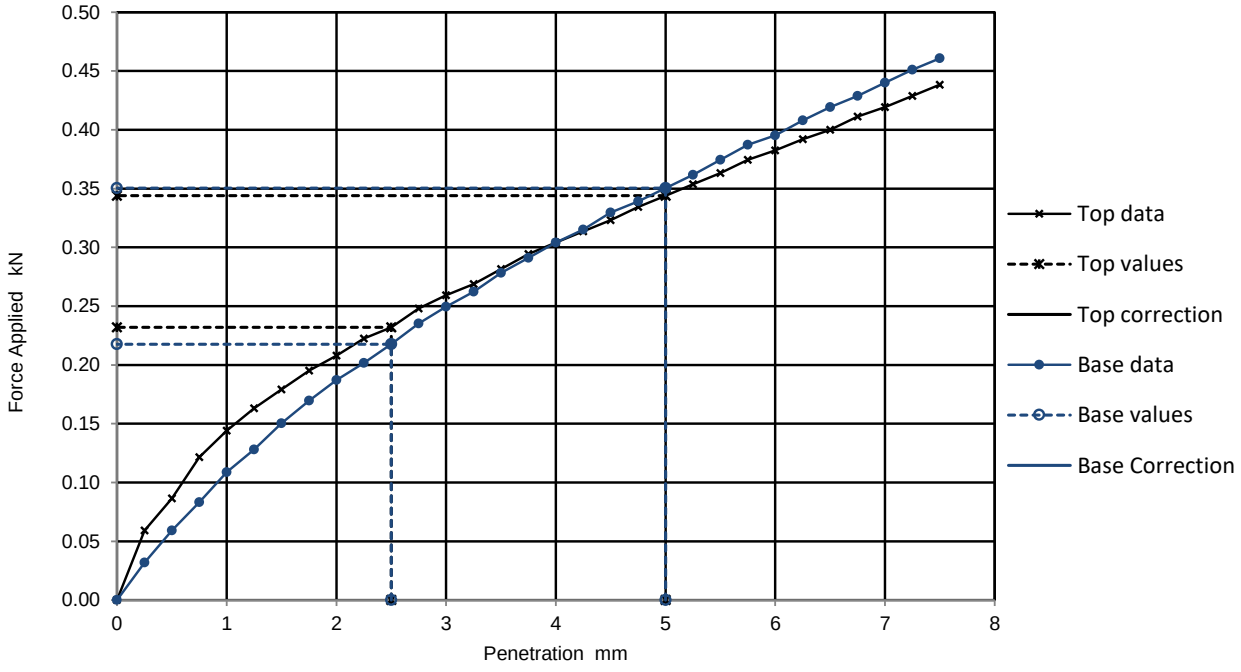
Initial Specimen details

Bulk density	1.97	Mg/m3
Dry density	1.60	Mg/m3
Moisture content	24	%

Soaking details

Period of soaking	5	days
Time to surface	5	days
Amount of swell recorded	0.03	mm
Surcharge applied	6	kg
	4	kPa

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, % 2.5mm	5mm	Highest	Average	Moisture Content %
TOP	No	1.8	1.7	1.8	1.8	27
BASE	No	1.6	1.8	1.8		23

Remarks

Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU

Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: **J.P**

Date: 04/12/2024

Geo-Environmental

APPENDIX D

Geochemical Laboratory Results



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Analytical Report Number : 24-052709

Project / Site name:	Mortimers Lane	Samples received on:	07/11/2024
Your job number:	GE22375	Samples instructed on/ Analysis started on:	08/11/2024
Your order number:	PO 7955	Analysis completed by:	15/11/2024
Report Issue Number:	1	Report issued on:	15/11/2024
Samples Analysed:	21 soil samples		



Signed:

Anna Goc
PL Head of Reporting Team
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

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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.

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373452	373453	373454	373455	373456
Sample Reference				TP02	TP06	TP09	TP11	TP18
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	2.00	0.35	0.20	0.40
Date Sampled				04/11/2024	04/11/2024	05/11/2024	06/11/2024	05/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	23	17	18	17
Total mass of sample received	kg	0.1	NONE	1.2	1.2	1.2	1.2	1.2
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SCA	-	SCA	SCA	SCA
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	7.3	7.6	7.2	6.9	6.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Total Sulphate as SO_4	mg/kg	50	MCERTS	420	-	270	280	320
Total Sulphate as SO_4	%	0.005	MCERTS	-	0.031	-	-	-
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	20	140	14	5.3	9.6
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	9.88	72.3	7.2	2.63	4.81
Sulphide	mg/kg	1	MCERTS	< 1.0	-	1.6	2.1	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2.4	-	2.3	2.2	2.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	63	-	-	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	120	-	-	-
Total Sulphur	%	0.005	MCERTS	-	0.012	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.9	-	0.7	1	0.9
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-	< 2.0	-	-	-
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	-	< 2.0	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	< 0.80	< 0.80	< 0.80

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373452	373453	373454	373455	373456
Sample Reference				TP02	TP06	TP09	TP11	TP18
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.35	2.00	0.35	0.20	0.40
Date Sampled				04/11/2024	04/11/2024	05/11/2024	06/11/2024	05/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.8	-	11	7.7	7.1
Barium (aqua regia extractable)	mg/kg	1	MCERTS	28	-	28	35	23
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.67	-	0.71	0.43	0.46
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	-	0.7	0.7	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	42	-	35	21	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	5.7	-	8.3	7	6
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	-	10	14	11
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	-	14	10	7.7
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	1.1	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	59	-	54	34	36
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	39	-	41	34	31
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	9.7	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	19	-	-	-
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020	-	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0

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

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373457	373458	373459	373460	373461
Sample Reference				TP22	TP27	TP28	TP30	TP30
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	1.20	0.20	0.20	1.00
Date Sampled				04/11/2024	05/11/2024	05/11/2024	04/11/2024	04/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	20	19	17	20
Total mass of sample received	kg	0.1	NONE	1.2	1.2	1.2	1.2	0.9
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	SCA	-	SCA	SCA	-
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	5.7	6.4	6.7	6.6	7.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Total Sulphate as SO_4	mg/kg	50	MCERTS	360	-	610	320	-
Total Sulphate as SO_4	%	0.005	MCERTS	-	0.021	-	-	0.031
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	11	6.3	12	10	28
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	5.34	3.14	6.11	5.02	14.1
Sulphide	mg/kg	1	MCERTS	< 1.0	-	65	< 1.0	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	8.7	-	3.1	< 1.0	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	0.6	-	-	< 0.5
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	-
Total Sulphur	mg/kg	50	MCERTS	-	65	-	-	100
Total Sulphur	%	0.005	MCERTS	-	0.006	-	-	0.01
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.4	-	1.7	0.8	-
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-	< 2.0	-	-	< 2.0
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	-	< 2.0	-	-	< 2.0
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	< 0.80	< 0.80	-

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373457	373458	373459	373460	373461
Sample Reference				TP22	TP27	TP28	TP30	TP30
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	1.20	0.20	0.20	1.00
Date Sampled				04/11/2024	05/11/2024	05/11/2024	04/11/2024	04/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.4	-	7.4	6.4	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	20	-	21	23	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.41	-	0.36	0.35	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	-	0.6	0.7	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	< 1.8	< 1.8	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	-	17	20	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.1	-	7.2	5.4	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	-	13	11	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.7	-	6.8	9.3	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	27	-	26	34	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	27	-	28	27	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	< 2.5	-	-	6.2
Magnesium (water soluble)	mg/kg	5	NONE	-	< 5.0	-	-	12
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	-
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	-
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	-
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	-
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	< 10	-
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	< 10	-
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	-
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020	-	< 0.020	< 0.020	-
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	-	1.8	< 1.0	-
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	-	5.1	< 2.0	-
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	< 10	-
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	< 10	-
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	-
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	< 10	-
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	< 10	-
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	-
Benzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	-
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	-

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

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373462	373463	373464	373465	373466
Sample Reference				TP31	TP31	TP32	TP33	TP34
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.70	0.20	2.10	0.30
Date Sampled				06/11/2024	06/11/2024	06/11/2024	06/11/2024	06/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	14	16	18	17
Total mass of sample received	kg	0.1	NONE	1.2	1.1	1.4	1	0.3
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SCA	-	SCA	-	SCA
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	7.2	6.2	5.8	6.5	7.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
Total Sulphate as SO_4	mg/kg	50	MCERTS	380	-	560	-	290
Total Sulphate as SO_4	%	0.005	MCERTS	-	0.065	-	0.02	-
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3.9	6.1	4.8	8.9	9.7
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1.93	3.07	2.39	4.47	4.87
Sulphide	mg/kg	1	MCERTS	1.6	-	1.3	-	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	4.1	-	2.7	-	3.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	< 0.5	-	3.3	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	190	-	150	-
Total Sulphur	%	0.005	MCERTS	-	0.019	-	0.015	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.7	-	1.1	-	0.5
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-	< 2.0	-	< 2.0	-
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	-	< 2.0	-	< 2.0	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	< 0.80	-	< 0.80

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373462	373463	373464	373465	373466
Sample Reference				TP31	TP31	TP32	TP33	TP34
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.70	0.20	2.10	0.30
Date Sampled				06/11/2024	06/11/2024	06/11/2024	06/11/2024	06/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	-	8.4	-	8.9
Barium (aqua regia extractable)	mg/kg	1	MCERTS	26	-	32	-	41
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.48	-	0.48	-	0.64
Boron (water soluble)	mg/kg	0.2	MCERTS	0.8	-	0.5	-	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	< 1.8	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	-	19	-	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	7.5	-	8.2	-	7
Lead (aqua regia extractable)	mg/kg	1	MCERTS	11	-	18	-	12
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	10	-	10	-	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	1.2
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	-	27	-	42
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	28	-	39	-	36
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	< 2.5	-	4.2	-
Magnesium (water soluble)	mg/kg	5	NONE	-	< 5.0	-	8.4	-
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	-	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020	-	< 0.020	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	-	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	-	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	-	< 10
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	-	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	-	< 10
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0

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

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373467	373468	373469	373470	373471
Sample Reference				TP36	TP36	TP37	TP38	TP39
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.45	1.20	0.20	0.40	0.40
Date Sampled				06/11/2024	06/11/2024	06/11/2024	06/11/2024	04/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	19	18	23	18	19
Total mass of sample received	kg	0.1	NONE	1.2	1	1.1	1.3	1.2
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	EWS	-	EWS	EWS	EWS
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	7.6	7.9	5.9	7.4	6.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Total Sulphate as SO_4	mg/kg	50	MCERTS	240	-	540	340	290
Total Sulphate as SO_4	%	0.005	MCERTS	-	0.025	-	-	-
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3.3	3.8	11	7.8	4.5
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1.63	1.9	5.32	3.88	2.26
Sulphide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	1.2
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	4.7	-	4.5	5.3	4.4
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	2.6	-	-	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	100	-	-	-
Total Sulphur	%	0.005	MCERTS	-	0.01	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.5	-	1.7	0.5	0.5
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-	< 2.0	-	-	-
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	-	< 2.0	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	< 0.80	< 0.80	< 0.80

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373467	373468	373469	373470	373471
Sample Reference				TP36	TP36	TP37	TP38	TP39
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.45	1.20	0.20	0.40	0.40
Date Sampled				06/11/2024	06/11/2024	06/11/2024	06/11/2024	04/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	-	14	14	8
Barium (aqua regia extractable)	mg/kg	1	MCERTS	29	-	35	40	26
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.57	-	0.41	0.63	0.44
Boron (water soluble)	mg/kg	0.2	MCERTS	1	-	0.8	0.6	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	0.3	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	35	-	18	32	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	6.4	-	9	7.6	3.4
Lead (aqua regia extractable)	mg/kg	1	MCERTS	8.7	-	28	18	9
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	-	8.6	15	9.1
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	1	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	54	-	31	54	41
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32	-	33	120	23
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	< 2.5	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	< 5.0	-	-	-
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020	-	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0

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

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373472
Sample Reference				TP39
Sample Number				None Supplied
Depth (m)				1.50
Date Sampled				04/11/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	20
Total mass of sample received	kg	0.1	NONE	1.1

Asbestos

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

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.2
Total Cyanide	mg/kg	1	MCERTS	-
Total Sulphate as SO_4	mg/kg	50	MCERTS	-
Total Sulphate as SO_4	%	0.005	MCERTS	0.023
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	13
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	6.67
Sulphide	mg/kg	1	MCERTS	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	0.6
Elemental Sulphur	mg/kg	5	MCERTS	-
Total Sulphur	mg/kg	50	MCERTS	70
Total Sulphur	%	0.005	MCERTS	0.007
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	< 2.0
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-

Speciated PAHs

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

Total PAH

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

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Analytical Report Number: 24-052709
Project / Site name: Mortimers Lane
Your Order No: PO 7955

Lab Sample Number				373472
Sample Reference				TP39
Sample Number				None Supplied
Depth (m)				1.50
Date Sampled				04/11/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	4.9
Magnesium (water soluble)	mg/kg	5	NONE	9.9
Petroleum Hydrocarbons				
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	-
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	-
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	-
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	-
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	-
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	-
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	-
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	-
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	-
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	-
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	-
VOCs				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-
Benzene	µg/kg	5	MCERTS	-
Toluene	µg/kg	5	MCERTS	-
Ethylbenzene	µg/kg	5	MCERTS	-
p & m-Xylene	µg/kg	8	MCERTS	-
o-Xylene	µg/kg	5	MCERTS	-

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Analytical Report Number : 24-052709
Project / Site name: Mortimers Lane

* 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 *
373452	TP02	None Supplied	0.35	Brown loam and clay with gravel and vegetation
373453	TP06	None Supplied	2	Brown clay
373454	TP09	None Supplied	0.35	Brown clay
373455	TP11	None Supplied	0.2	Brown loam and clay with gravel and vegetation
373456	TP18	None Supplied	0.4	Brown loam and clay with gravel and vegetation
373457	TP22	None Supplied	0.15	Brown loam and clay with gravel and vegetation
373458	TP27	None Supplied	1.2	Brown clay and sand
373459	TP28	None Supplied	0.2	Brown loam and clay with gravel and vegetation
373460	TP30	None Supplied	0.2	Brown loam and clay with gravel and vegetation
373461	TP30	None Supplied	1	Brown clay with gravel
373462	TP31	None Supplied	0.3	Brown loam and clay with gravel and vegetation
373463	TP31	None Supplied	0.7	Brown clay with gravel and vegetation
373464	TP32	None Supplied	0.2	Brown loam and sand with gravel and vegetation
373465	TP33	None Supplied	2.1	Brown loam and clay with gravel and vegetation
373466	TP34	None Supplied	0.3	Brown loam and clay with gravel and vegetation
373467	TP36	None Supplied	0.45	Brown loam and clay with gravel and vegetation
373468	TP36	None Supplied	1.2	Brown clay with gravel and vegetation
373469	TP37	None Supplied	0.2	Brown loam and clay with gravel and vegetation
373470	TP38	None Supplied	0.4	Brown loam and clay with gravel and vegetation
373471	TP39	None Supplied	0.4	Brown clay and sand with gravel
373472	TP39	None Supplied	1.5	Brown clay with gravel

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Analytical Report Number : 24-052709
Project / Site name: Mortimers Lane

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-PL	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
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO4 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
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Speciated 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
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-PL	D/W	MCERTS

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Analytical Report Number : 24-052709
Project / Site name: Mortimers Lane

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
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
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-PL	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-PL	W	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

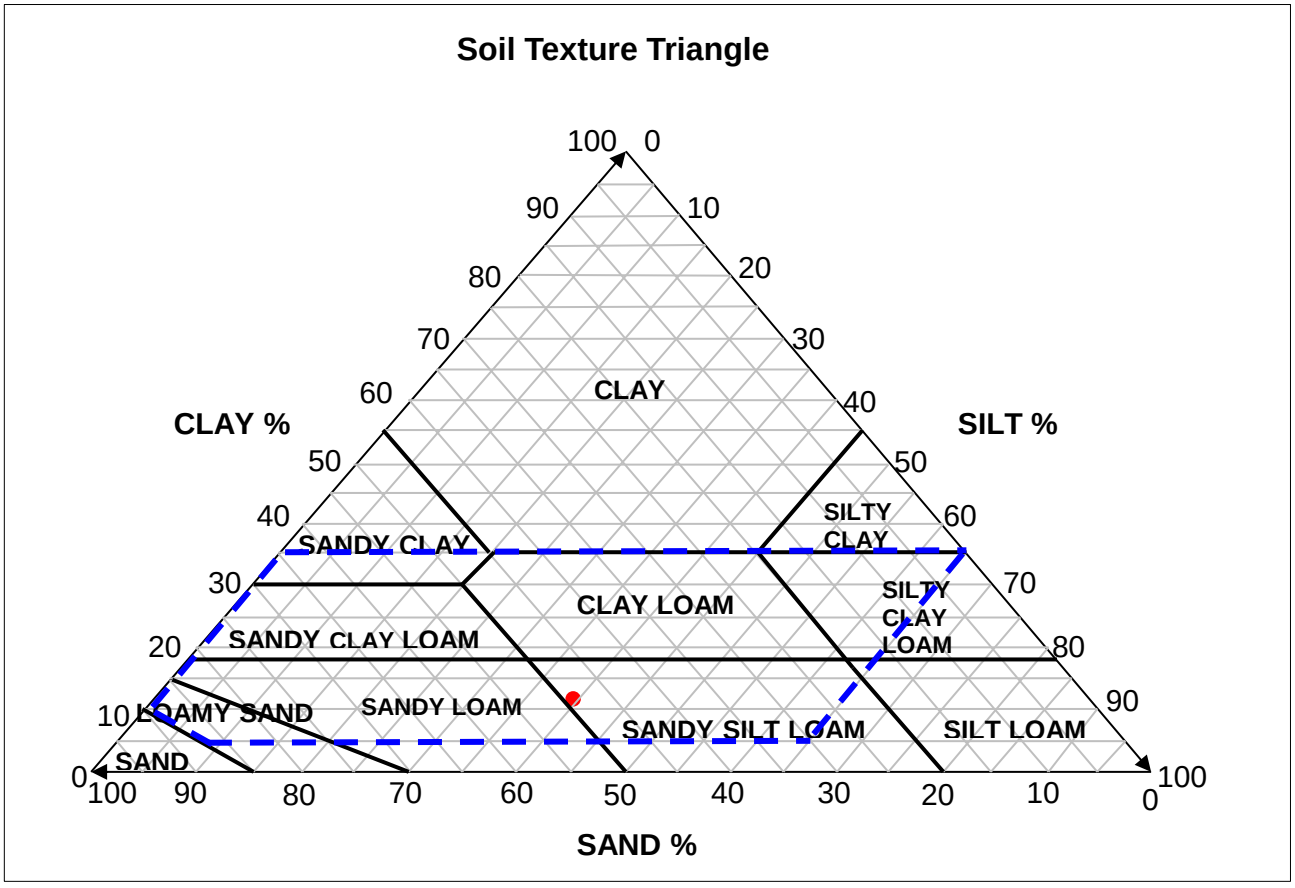
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

Client:	Geo-Environmental Services Ltd	Client Reference:	GE22375
Client Address:	Unit 7, Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex, BN6 9GL	Job Number:	24-052711-1
		Date Sampled:	05/11/2024
		Date Received:	07/11/2024
Contact:	Fiona Goode	Date Tested:	13/11/2024
Site Address:	Mortimers Lane	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	373485	Depth Top [m]:	0.15
Hole No.:	TP18	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	ES
Sample Description:	SANDY SILT LOAM		



Sample Proportion	% dry mass
Sand	49.2
Silt	38.0
Clay	12.8

Texture within acceptable area (Y/N) Y

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 15/11/2024

GF 286.11

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

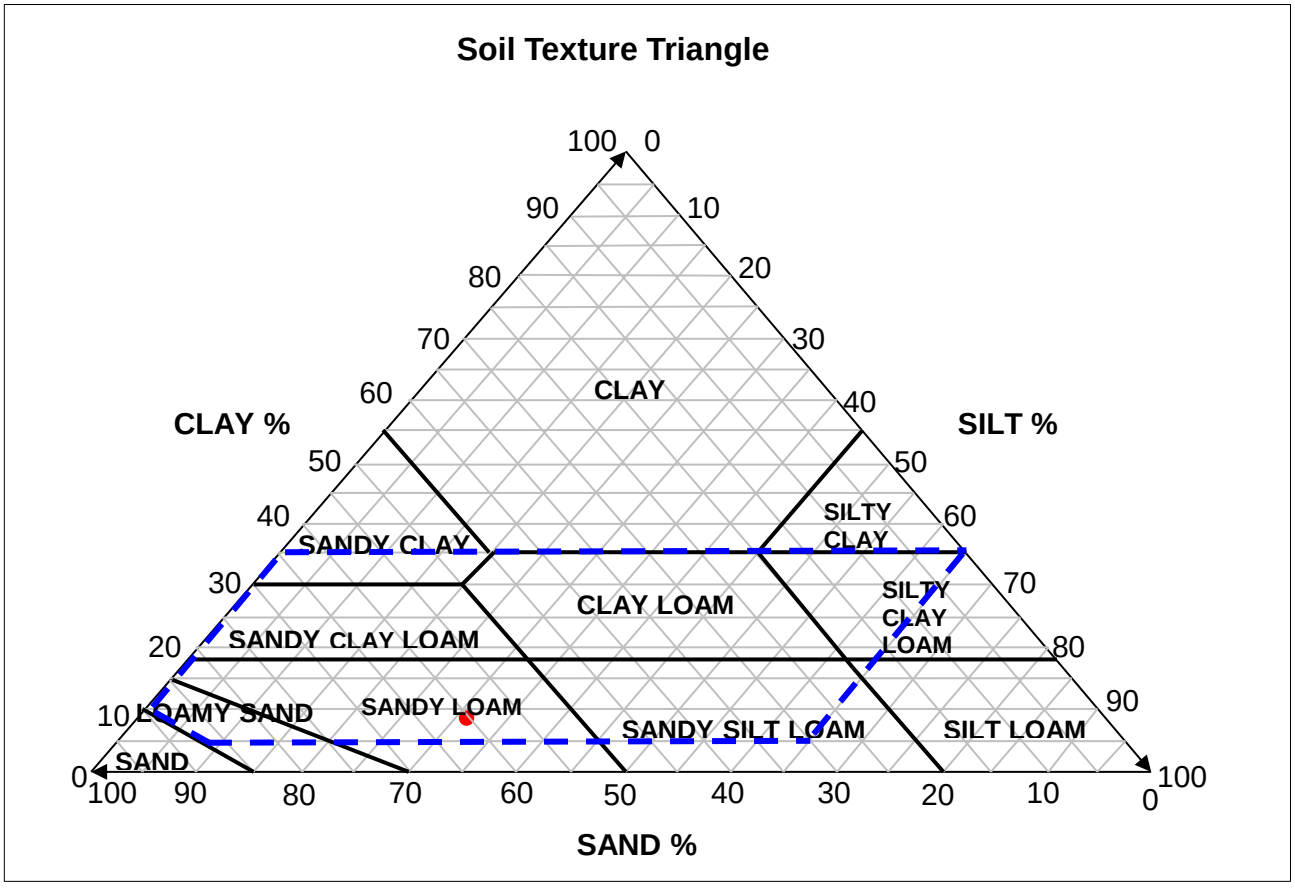
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

Client:	Geo-Environmental Services Ltd	Client Reference:	GE22375
Client Address:	Unit 7, Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex, BN6 9GL	Job Number:	24-052711-1
		Date Sampled:	06/11/2024
		Date Received:	07/11/2024
Contact:	Fiona Goode	Date Tested:	13/11/2024
Site Address:	Mortimers Lane	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	373486	Depth Top [m]:	0.15
Hole No.:	TP33	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	ES
Sample Description:	SANDY LOAM		



Sample Proportion	% dry mass
Sand	60.8
Silt	29.5
Clay	9.7

Texture within acceptable area (Y/N) Y

Remarks:

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Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 15/11/2024

GF 286.11

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

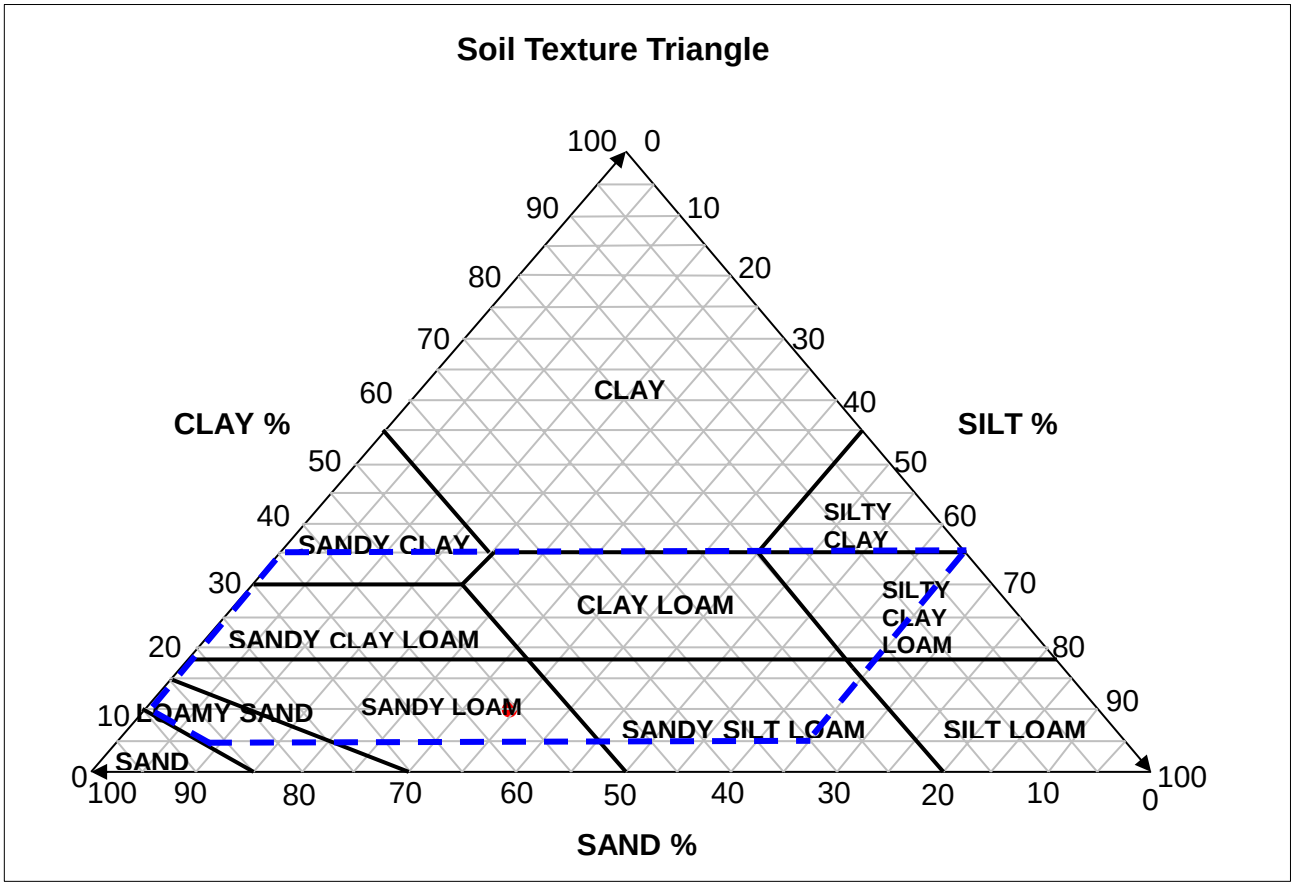
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

Client:	Geo-Environmental Services Ltd	Client Reference:	GE22375
Client Address:	Unit 7, Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex, BN6 9GL	Job Number:	24-052711-1
		Date Sampled:	06/11/2024
		Date Received:	07/11/2024
Contact:	Fiona Goode	Date Tested:	13/11/2024
Site Address:	Mortimers Lane	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	373487	Depth Top [m]:	0.15
Hole No.:	TP36	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	ES
Sample Description:	SANDY LOAM		



Sample Proportion	% dry mass
Sand	56.1
Silt	32.9
Clay	11.0

Texture within acceptable area (Y/N) Y

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed: Katarzyna Koziel

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 15/11/2024

GF 286.11

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Analytical Report Number : 24-053100

Project / Site name:	Mortimers Lane	Samples received on:	11/11/2024
Your job number:	GE22375	Samples instructed on/ Analysis started on:	11/11/2024
Your order number:	PO-7955	Analysis completed by:	19/11/2024
Report Issue Number:	1	Report issued on:	19/11/2024
Samples Analysed:	6 soil samples		

Signed:

Claire Bancroft
Customer Service Advisor
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

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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.

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 24-053100
Project / Site name: Mortimers Lane
Your Order No: PO-7955

Lab Sample Number				375612	375613	375614	375615	375616
Sample Reference				TP01	TP01	TP03	TP04	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.70	0.40	0.30	0.20
Date Sampled				08/11/2024	08/11/2024	07/11/2024	07/11/2024	07/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	32.9	< 0.1
Moisture Content	%	0.01	NONE	20	20	17	14	17
Total mass of sample received	kg	0.1	NONE	1.2	1.1	1.4	1.3	1.4
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	JSW	-	JSW	JSW	JSW
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	7.2	8.3	9	7.3	6.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Total Sulphate as SO_4	mg/kg	50	MCERTS	480	-	370	340	400
Total Sulphate as SO_4	%	0.005	MCERTS	-	0.02	-	-	-
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	37	50	91	25	24
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	18.6	24.9	45.4	12.6	12.2
Sulphide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	3.2	-	9.8	3.4	2.7
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	1.2	-	-	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	89	-	-	-
Total Sulphur	%	0.005	MCERTS	-	0.009	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	1.7	-	0.7	0.8	1.6
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-	< 2.0	-	-	-
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	-	< 2.0	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	0.08
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	0.08
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	< 0.80	< 0.80	< 0.80

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Analytical Report Number: 24-053100
Project / Site name: Mortimers Lane
Your Order No: PO-7955

Lab Sample Number				375612	375613	375614	375615	375616
Sample Reference				TP01	TP01	TP03	TP04	TP05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.15	0.70	0.40	0.30	0.20
Date Sampled				08/11/2024	08/11/2024	07/11/2024	07/11/2024	07/11/2024
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.1	-	14	6.6	8.1
Barium (aqua regia extractable)	mg/kg	1	MCERTS	30	-	44	19	28
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.46	-	0.78	0.31	0.46
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	-	1.3	0.5	1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	-	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	-	41	30	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	-	11	6.4	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	23	-	16	9.1	29
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.4	-	17	6.3	9.3
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	36	-	55	31	35
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	42	-	49	23	46
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	3.5	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	7.1	-	-	-
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020	-	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	-	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	-	< 8.4	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	-	< 10	< 10	< 10
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	< 8.0	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	< 5.0	< 5.0

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

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Analytical Report Number: 24-053100
Project / Site name: Mortimers Lane
Your Order No: PO-7955

Lab Sample Number				375617
Sample Reference				TP25
Sample Number				None Supplied
Depth (m)				0.30
Date Sampled				07/11/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	14
Total mass of sample received	kg	0.1	NONE	1.3

Asbestos

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

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0
Total Sulphate as SO_4	mg/kg	50	MCERTS	250
Total Sulphate as SO_4	%	0.005	MCERTS	-
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	20
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	10.1
Sulphide	mg/kg	1	MCERTS	3.3
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	3.7
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-
Total Sulphur	%	0.005	MCERTS	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6
Water Soluble Nitrate (2:1) as N	mg/kg	2	NONE	-
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	-

Total Phenols

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

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

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Analytical Report Number: 24-053100
Project / Site name: Mortimers Lane
Your Order No: PO-7955

Lab Sample Number				375617
Sample Reference				TP25
Sample Number				None Supplied
Depth (m)				0.30
Date Sampled				07/11/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.8
Barium (aqua regia extractable)	mg/kg	1	MCERTS	20
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.46
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	6.4
Lead (aqua regia extractable)	mg/kg	1	MCERTS	6.3
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.1
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	37
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	26
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-
Magnesium (water soluble)	mg/kg	5	NONE	-
Petroleum Hydrocarbons				
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10
TPHCWG - Aliphatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	< 0.020
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	< 10
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	< 10
TPHCWG - Aromatic >EC5 - EC44 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10
VOCs				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0

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

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Analytical Report Number : 24-053100
Project / Site name: Mortimers Lane

* 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 *
375612	TP01	None Supplied	0.15	Brown loam and clay with gravel and vegetation
375613	TP01	None Supplied	0.7	Brown clay
375614	TP03	None Supplied	0.4	Brown clay and loam with gravel and vegetation
375615	TP04	None Supplied	0.3	Brown clay and loam with vegetation and stones
375616	TP05	None Supplied	0.2	Brown loam and clay with gravel and vegetation
375617	TP25	None Supplied	0.3	Brown clay and sand with vegetation

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Analytical Report Number : 24-053100
Project / Site name: Mortimers Lane

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-PL	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
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO4 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
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Speciated 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
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-PL	D/W	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number : 24-053100
Project / Site name: Mortimers Lane

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	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
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-PL	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-PL	W	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	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 - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

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The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

SPECIFICATION FOR TOPSOIL
In-house method based on: BS 3882: 2015

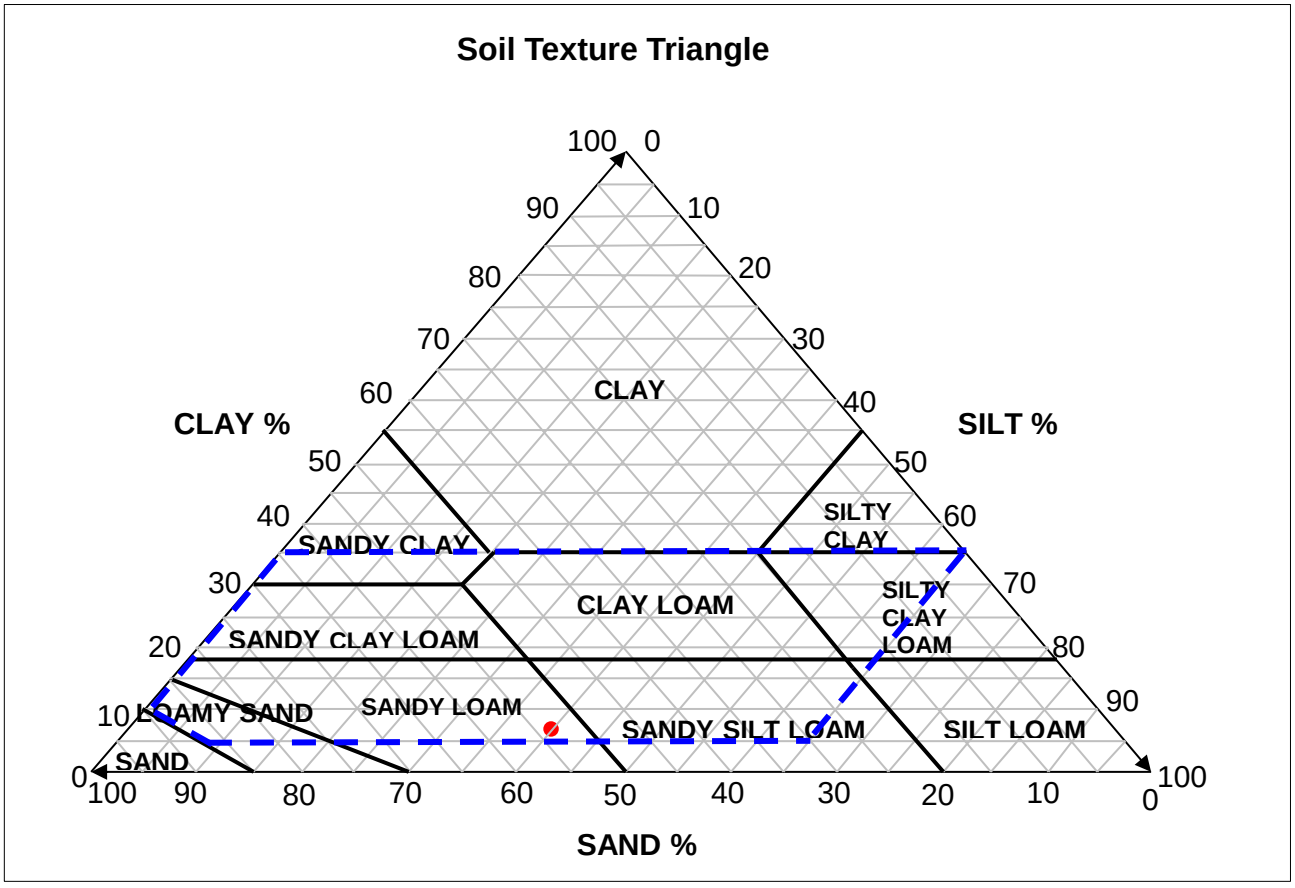
i2 Analytical Ltd
7 Woodshots Meadow
Croxley Green Business Park
Watford Herts WD18 8YS

Client:	Geo-Environmental Services Ltd	Client Reference:	GE22375
Client Address:	Unit 7, Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex, BN6 9GL	Job Number:	24-053101-1
		Date Sampled:	07/11/2024
		Date Received:	11/11/2024
Contact:	Fiona Goode	Date Tested:	14/11/2024
Site Address:	Mortimers Lane	Sampled By:	Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference:	375618	Depth Top [m]:	0.15
Hole No.:	TP03	Depth Base [m]:	Not Given
Sample Reference:	Not Given	Sample Type:	ES
Sample Description:	SANDY LOAM		



Sample Proportion	% dry mass
Sand	53.7
Silt	38.4
Clay	7.9

Texture within acceptable area (Y/N) Y

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Katarzyna Koziel
Geotechnical Reporting Team Leader
for and on behalf of i2 Analytical Ltd

Date Reported: 18/11/2024

GF 286.11

Geo-Environmental Services Ltd
Unit 7, Danworth Farm
Cuckfield Road
Hurstpierpoint
West Sussex
BN6 9GL

t: 01273 832972

e: fiona.goode@gesl.net

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

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

Analytical Report Number : 24-053101

Project / Site name:	Mortimers Lane	Samples received on:	11/11/2024
Your job number:	GE22375	Samples instructed on/ Analysis started on:	11/11/2024
Your order number:	PO-7955	Analysis completed by:	19/11/2024
Report Issue Number:	1	Report issued on:	20/11/2024
Samples Analysed:	1 soil sample		

Signed:

Joanna Wawrzeczko
Senior 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.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

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

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Certificate of Analysis

BS 3882:2015 Specification For Topsoil

	Fail BS 3882		client	
Report No:	24-053101	Geo-Environmental Services Ltd		
Location	Mortimers Lane			
Lab Reference (Sample Number)	375618			
Sampling Date	11/07/2024			
Sample ID	TP03			
Depth (m)	0.15	Compliant with range (Y/N)		

		unit	Result	Multi-P	Acid	Calc	Low-F	Low-F(a)	Low-F(c)
Soil texture	<2mm fraction	%m/m	SANDY LOAM	Y	Y	Y	Y	Y	Y
Maximum coarse fragment content:	>2mm	%m/m	22.00	Y	Y	Y	Y	Y	Y
	>20mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	>50mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
Mass loss on ignition		%	5.90						
	Clay 5-20%		Y	Y	Y	Y	Y	Y	Y
	Clay 20-35%		-	-	-	-	-	-	-
Soil pH:		pH	6.70	Y	N	N	Y	N	N
Carbonate:		%m/m	3.00	-	-	Y	-	-	Y
Available plant nutrients	Nitrogen	%m/m	0.33	Y	Y	Y	-	-	-
	Extractable Phosphate (as P)	mg/l	41.00	Y	Y	Y	N	N	N
	Extractable Potassium	mg/l	86.20	N	N	N	-	-	-
	Extractable Magnesium	mg/l	110.00	Y	Y	Y	-	-	-
Carbon: Nitrogen Ratio:		:1	10.41	Y	Y	Y	Y	Y	Y
Conductivity		us/cm	1600.00	Y	-	-	-	-	-
Phytotoxic contaminants:	** Total Zinc	mg/kg	76.00	Y	Y	Y	Y	Y	Y
	** Total Copper	mg/kg	16.00	Y	Y	Y	Y	Y	Y
	** Total Nickel	mg/kg	13.00	Y	Y	Y	Y	Y	Y
Visible contaminants:	>2mm	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Plastics	%m/m	0.00	Y	Y	Y	Y	Y	Y
	Sharps	no. in 1 kg	0.00	Y	Y	Y	Y	Y	Y
Compliancy:				Fail	Fail	Fail	Fail	Fail	Fail

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepencies with current legislation

** = MCERTS accrediited

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 24-053101
Project / Site name: Mortimers Lane

* 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 *
375618	TP03	None Supplied	0.15	Brown clay and loam with vegetation

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number : 24-053101
Project / Site name: Mortimers Lane

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
Coarse Fragment and Contaminant Analysis	Determination of >2mm contaminants	BS3882:2007 & BS8601:2013 & PAS 100:2005	L019B	D	NONE
Density of available extract	Gravimetric determination of density of dried sample up to 2 mm	In-house method	L019B	D	NONE
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
Conductivity (BS 3882/BS 8601)	Determination of the conductivity of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L031B	D	NONE
Carbonate (Topsoil - BS 3882)	Determination of Carbonate as per BS 3882:2015	Method based on BS 3882:2015	L034-PL	D	NONE
Extractable/Available Metals (BS 3882/BS 8601)	Determination of the extractable metals in soil, in accordance with BS 3882:2007 methodology	BS3882:2007 & BS8601:2013	L038B	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
Carbon to Nitrogen Ratio (Topsoil - BS3882:2015)	Carbon to Nitrogen ratio (:1) calculated using Loss on Ignition	BS3882:2015	L047-PL/L087B	W	NONE
Mass loss on ignition (Topsoil - BS 3882)	Determination of Loss on Ignition as per BS 3882:2015	Method based on BS 3882:2015	L047-PL	D	NONE
Phosphorus as PO4 (BS 3882/BS 8601)	Determination of the extractable phosphorus in soil, in accordance with BS 3882:2007 methodology	Method based on BS 3882:2015 & BS 8601:2013	L048B	D	NONE
Kjeldahl nitrogen in soil	Determination of total nitrogen using the Kjeldahl-digestion method and ion selective electrode	In-house method based on BS 7755-3.7:1995	L087B	D	NONE
pH (BS 3882/BS 8601)	Determination of the pH of soil in accordance with BS 3882:2007 methodology	BS 3882:2007 & BS 8601:2013	L099-PL	D	NONE
Topsoil (BS 3882:2015)	Specification for topsoil	BS 3882:2015	PL		NONE
Textural Classification Diagram (BS 3882:2015)	BS 3882:2015	BS 3882:2015	PL		NONE

Analytical Report Number : 24-053101
Project / Site name: Mortimers Lane

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
Geotechnical Testing	See attached geotechnical report	See attached geotechnical report	PL		NONE

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.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
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Geo-Environmental

APPENDIX E

Soakage Test Results



Geo-Environmental	**Soakaway Test Results (after BRE Digest 365)**	**Geo-EnvironmentalServices Limited** Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net

Project Name :	Land South of Mortimers Lane	**Job No. :**	GE22375
Client :	Bloor Homes Southern	**Date :**	04/11/2024

Pit reference	**TP02**		
Test reference	Test1		
Pit depth (m)	1.60		
Pit width (m)	0.60		
Pit length (m)	1.90		
Depth to standing water (m)			

Test 1

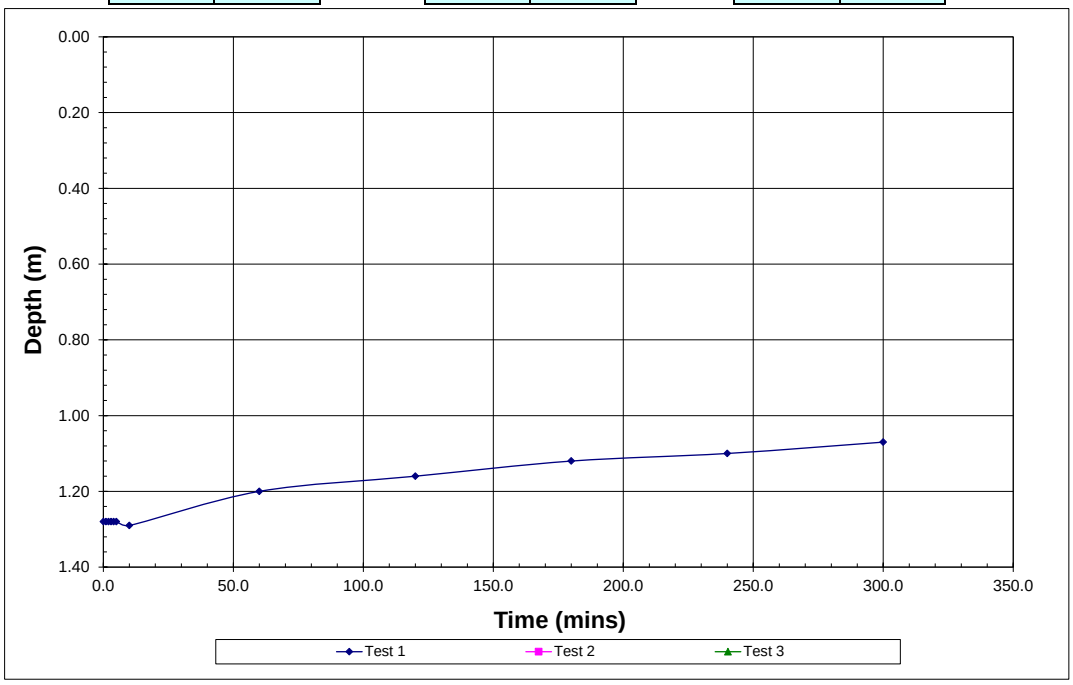
Time (min)	Depth (m)
0.0	1.28
1.0	1.28
2.0	1.28
3.0	1.28
4.0	1.28
5.0	1.28
10.0	1.29
60.0	1.20
120.0	1.16
180.0	1.12
240.0	1.10
300.0	1.07

Test 2

Time (min)	Depth (m)

Test 3

Time (min)	Depth (m)



Max. depth (m)	1.60	0.00	0.00
Effective depth (m)	0.32	0.00	0.00
75% effective depth (m)	1.36	0.00	0.00
50% effective depth (m)	1.44	0.00	0.00
25% effective depth (m)	1.52	0.00	0.00
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.18	0.00	0.00
ap 50	1.94	0	0
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	**Insufficient fall in water to complete test**
Soil infiltration rate (mm/hr)	**Insufficient fall in water to complete test**

Notes:

1	Blue cells require input data
2	Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
3	First line of table must be depth at time = 0

Geo-Environmental	**Soakaway Test Results (after BRE Digest 365)**	**Geo-EnvironmentalServices Limited** Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net

Project Name :	Land South of Mortimers Lane	**Job No. :**	GE22375
Client :	Bloor Homes Southern	**Date :**	04/11/2024

Pit reference	**TP23**		
Test reference	Test1		
Pit depth (m)	1.35		
Pit width (m)	0.60		
Pit length (m)	1.80		
Depth to standing water (m)			

Test 1

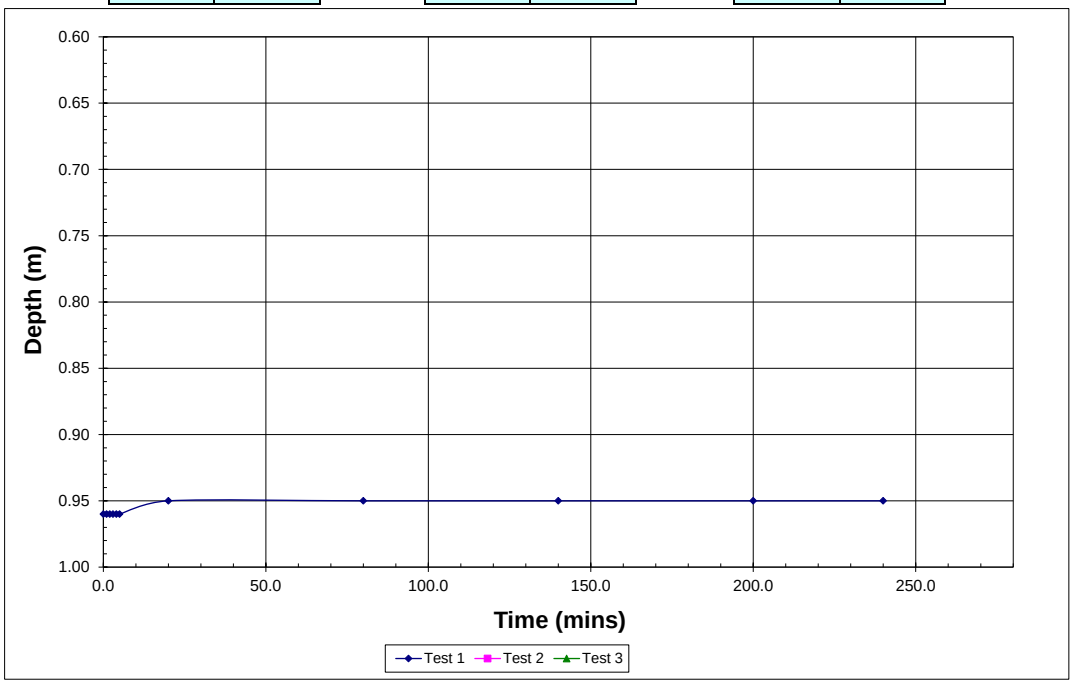
Time (min)	Depth (m)
0.0	0.96
1.0	0.96
2.0	0.96
3.0	0.96
4.0	0.96
5.0	0.96
20.0	0.95
80.0	0.95
140.0	0.95
200.0	0.95
240.0	0.95

Test 2

Time (min)	Depth (m)

Test 3

Time (min)	Depth (m)



Max. depth (m)	1.35	0.00	0.00
Effective depth (m)	0.39	0.00	0.00
75% effective depth (m)	1.06	0.00	0.00
50% effective depth (m)	1.16	0.00	0.00
25% effective depth (m)	1.25	0.00	0.00
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.21	0.00	0.00
ap 50	2.016	0	0
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	**Insufficient fall in water to complete test**
Soil infiltration rate (mm/hr)	**Insufficient fall in water to complete test**

Notes:

1	Blue cells require input data
2	Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
3	First line of table must be depth at time = 0

Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-EnvironmentalServices Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net

Project Name :	Land South of Mortimers Lane	**Job No. :**	GE22375
Client :	Bloor Homes Southern	**Date :**	04/11/2024

Pit reference	**TP30**		
Test reference	Test1		
Pit depth (m)	1.60		
Pit width (m)	0.60		
Pit length (m)	1.90		
Depth to standing water (m)			

Test 1

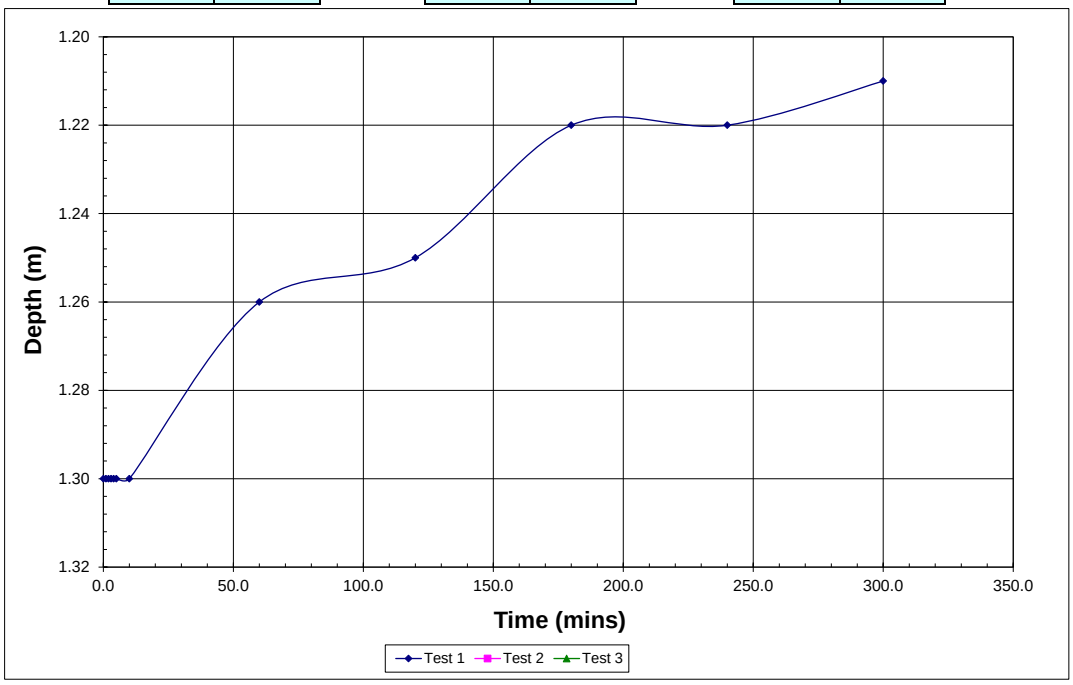
Time (min)	Depth (m)
0.0	1.30
1.0	1.30
2.0	1.30
3.0	1.30
4.0	1.30
5.0	1.30
10.0	1.30
60.0	1.26
120.0	1.25
180.0	1.22
240.0	1.22
300.0	1.21

Test 2

Time (min)	Depth (m)

Test 3

Time (min)	Depth (m)



Max. depth (m)	1.60	0.00	0.00
Effective depth (m)	0.30	0.00	0.00
75% effective depth (m)	1.38	0.00	0.00
50% effective depth (m)	1.45	0.00	0.00
25% effective depth (m)	1.53	0.00	0.00
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.17	0.00	0.00
ap 50	1.89	0	0
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	**Insufficient fall in water to complete test**
Soil infiltration rate (mm/hr)	**Insufficient fall in water to complete test**

Notes:

1	Blue cells require input data
2	Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
3	First line of table must be depth at time = 0

Geo-Environmental	**Soakaway Test Results (after BRE Digest 365)**	**Geo-EnvironmentalServices Limited** Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net

Project Name :	Land South of Mortimers Lane	**Job No. :**	GE22375
Client :	Bloor Homes Southern	**Date :**	04/11/2024

Pit reference	**TP39**		
Test reference	Test1		
Pit depth (m)	1.20		
Pit width (m)	0.60		
Pit length (m)	1.90		
Depth to standing water (m)			

Test 1

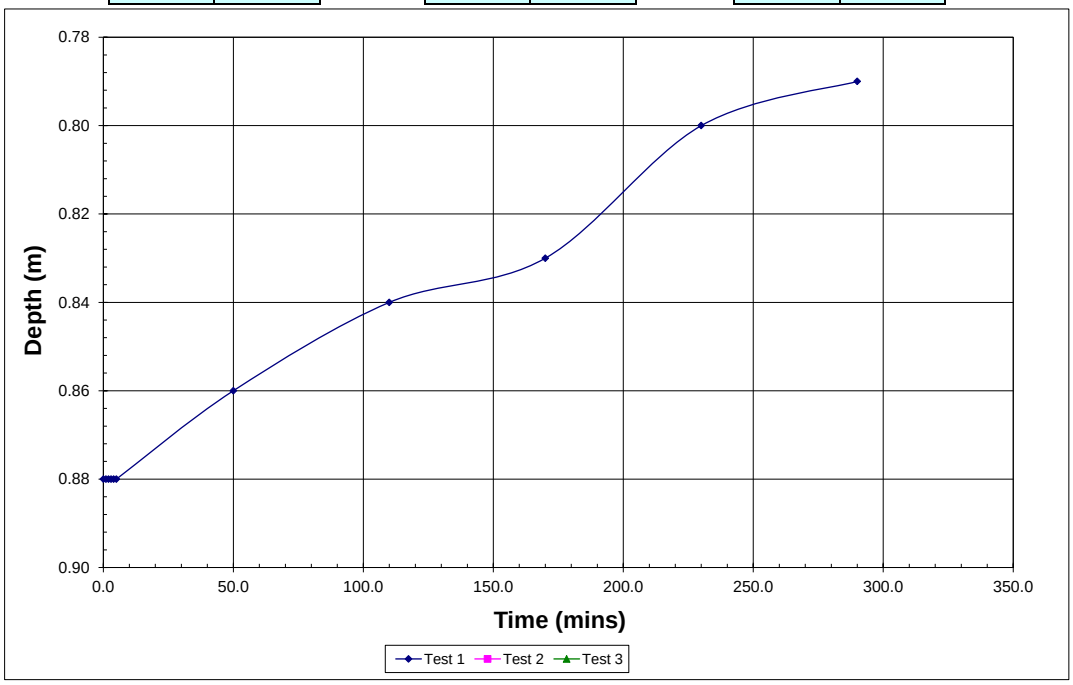
Time (min)	Depth (m)
0.0	0.88
1.0	0.88
2.0	0.88
3.0	0.88
4.0	0.88
5.0	0.88
50.0	0.86
110.0	0.84
170.0	0.83
230.0	0.80
290.0	0.79

Test 2

Time (min)	Depth (m)

Test 3

Time (min)	Depth (m)



Max. depth (m)	1.20	0.00	0.00
Effective depth (m)	0.32	0.00	0.00
75% effective depth (m)	0.96	0.00	0.00
50% effective depth (m)	1.04	0.00	0.00
25% effective depth (m)	1.12	0.00	0.00
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.18	0.00	0.00
ap 50	1.94	0	0
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	**Insufficient fall in water to complete test**
Soil infiltration rate (mm/hr)	**Insufficient fall in water to complete test**

Notes:

1	Blue cells require input data
2	Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
3	First line of table must be depth at time = 0

Geo-Environmental

APPENDIX F

HazWasteOnline Report



Waste Classification Report

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

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

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

55CO2-ZV4Q7-FSY9G

Report is invalid if pages are removed.

Job name

GE22375 Waste Soils Assessment

Description/Comments

Based on i2 24-052709-1 & 24-053100-1

Project

GE22375

Site

Mortimers Lane, Fair Oak

Classified by

Name:
Shaun Armitage
Date:
16 Jan 2025 14:12 GMT
Telephone:

Company:
Geo-Environmental Services
Unit 7, Danworth Farm, Cuckfield Rd
Hurstpierpoint
BN6 9GL

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

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	09 Jun 2022

Next 3 year Refresher due by Jun 2025

Purpose of classification

2 - Material Characterisation

Address of the waste

Land South of Mortimers Lane, Fair Oak, Hampshire **Post Code** SO50 7HN

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Construction of houses, private gardens, access roads, associated infrastructure and open space (amenity/leisure/recreational use)

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

Excavations for development works

Description of the waste

Topsoil, overlying clays, silts and sands of the London Clay Formation

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP02--04112024-0.35	0.35	Non Hazardous		3
2	TP09--05112024-0.35	0.35	Non Hazardous		6
3	TP11--06112024-0.20	0.20	Non Hazardous		9
4	TP18--05112024-0.40	0.40	Non Hazardous		12
5	TP22--04112024-0.15	0.15	Non Hazardous		15
6	TP28--05112024-0.20	0.20	Non Hazardous		18
7	TP30--04112024-0.20	0.20	Non Hazardous		21
8	TP31--06112024-0.30	0.30	Non Hazardous		24
9	TP32--06112024-0.20	0.20	Non Hazardous		27
10	TP34--06112024-0.30	0.30	Non Hazardous		30
11	TP36--06112024-0.45	0.45	Non Hazardous		33
12	TP37--06112024-0.20	0.20	Non Hazardous		36
13	TP38--06112024-0.40	0.40	Non Hazardous		39
14	TP39--04112024-0.40	0.40	Non Hazardous		42
15	TP01--08112024-0.15	0.15	Non Hazardous		45
16	TP03--07112024-0.40	0.40	Non Hazardous		48
17	TP04--07112024-0.30	0.30	Non Hazardous		51
18	TP05--07112024-0.20	0.20	Non Hazardous		54
19	TP25--07112024-0.30	0.30	Non Hazardous		57

Related documents

#	Name	Description
1	24-052709.batch.batch	i2 Analytical .batch file used to populate the Job
2	24-052709_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
3	24-053100_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
4	GESL Soils Waste Stream Template	waste stream template used to create this Job

Report

Created by: Shaun Armitage

Created date: 16 Jan 2025 14:12 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	60
Appendix B: Rationale for selection of metal species	61
Appendix C: Version	62

Classification of sample: TP02--04112024-0.35

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

Sample details

Sample name:
TP02--04112024-0.35
Sample Depth:
0.35 m
Moisture content:
19%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.8 mg/kg	1.32	10.481 mg/kg	0.00105 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		28 mg/kg	1.623	36.82 mg/kg	0.00368 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.67 mg/kg	2.775	1.506 mg/kg	0.000151 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.6 mg/kg	3.22	1.565 mg/kg	0.000156 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		42 mg/kg	1.462	61.385 mg/kg	0.00614 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5.7 mg/kg	1.126	5.198 mg/kg	0.00052 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12 mg/kg	1.56	15.161 mg/kg	0.000972 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.976	38.572 mg/kg	0.00386 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		59 mg/kg	1.785	85.314 mg/kg	0.00853 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		39 mg/kg	2.774	87.635 mg/kg	0.00876 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		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									
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				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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				7.3	pH		7.3	pH	7.3 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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		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									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
										Total:	0.0385 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP09--05112024-0.35

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

Sample details

Sample name:
TP09--05112024-0.35
Sample Depth:
0.35 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	12.055 mg/kg	0.00121 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		28 mg/kg	1.623	37.729 mg/kg	0.00377 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.71 mg/kg	2.775	1.636 mg/kg	0.000164 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	1.871 mg/kg	0.000187 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		35 mg/kg	1.462	51.154 mg/kg	0.00512 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.3 mg/kg	1.126	7.756 mg/kg	0.000776 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10 mg/kg	1.56	12.946 mg/kg	0.00083 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14 mg/kg	2.976	34.584 mg/kg	0.00346 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		54 mg/kg	1.785	80.012 mg/kg	0.008 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		41 mg/kg	2.774	94.404 mg/kg	0.00944 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
22		pH			PH		7.2	pH		7.2	pH	7.2 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		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
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
											Total:	0.0377 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP11--06112024-0.20

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

Sample details

Sample name:
TP11--06112024-0.20
Sample Depth:
0.20 m
Moisture content:
18%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.7 mg/kg	1.32	8.337 mg/kg	0.000834 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		35 mg/kg	1.623	46.594 mg/kg	0.00466 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.43 mg/kg	2.775	0.979 mg/kg	0.0000979 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	1.848 mg/kg	0.000185 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7 mg/kg	1.126	6.463 mg/kg	0.000646 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14 mg/kg	1.56	17.907 mg/kg	0.00115 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10 mg/kg	2.976	24.405 mg/kg	0.00244 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.1 mg/kg	2.554	2.304 mg/kg	0.00023 %	✓	
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		34 mg/kg	1.785	49.771 mg/kg	0.00498 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		34 mg/kg	2.774	77.343 mg/kg	0.00773 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		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									
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				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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				6.9	pH		6.9	pH	6.9 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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		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									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
										Total:	0.0305 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP18--05112024-0.40

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

Sample details

Sample name:
TP18--05112024-0.40
Sample Depth:
0.40 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.1 mg/kg	1.32	7.781 mg/kg	0.000778 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		23 mg/kg	1.623	30.992 mg/kg	0.0031 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.46 mg/kg	2.775	1.06 mg/kg	0.000106 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.9 mg/kg	3.22	2.405 mg/kg	0.000241 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28 mg/kg	1.462	40.924 mg/kg	0.00409 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6 mg/kg	1.126	5.607 mg/kg	0.000561 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11 mg/kg	1.56	14.241 mg/kg	0.000913 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		7.7 mg/kg	2.976	19.021 mg/kg	0.0019 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		36 mg/kg	1.785	53.341 mg/kg	0.00533 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		31 mg/kg	2.774	71.379 mg/kg	0.00714 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
22		pH			PH		6.9	pH		6.9	pH	6.9 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		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
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
											Total:	0.0289 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP22--04112024-0.15

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

Sample details

Sample name:
TP22--04112024-0.15
Sample Depth:
0.15 m
Moisture content:
18%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.4 mg/kg	1.32	10.177 mg/kg	0.00102 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		20 mg/kg	1.623	26.625 mg/kg	0.00266 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.41 mg/kg	2.775	0.933 mg/kg	0.0000933 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	1.848 mg/kg	0.000185 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9.1 mg/kg	1.126	8.401 mg/kg	0.00084 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12 mg/kg	1.56	15.349 mg/kg	0.000984 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		6.7 mg/kg	2.976	16.352 mg/kg	0.00164 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		27 mg/kg	1.785	39.524 mg/kg	0.00395 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		27 mg/kg	2.774	61.42 mg/kg	0.00614 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		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									
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				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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				5.7	pH		5.7	pH	5.7 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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		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									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
										Total:	0.025 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP28--05112024-0.20

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

Sample details

Sample name:
TP28--05112024-0.20
Sample Depth:
0.20 m
Moisture content:
19%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.4 mg/kg	1.32	7.914 mg/kg	0.000791 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		21 mg/kg	1.623	27.615 mg/kg	0.00276 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.36 mg/kg	2.775	0.809 mg/kg	0.0000809 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.6 mg/kg	3.22	1.565 mg/kg	0.000156 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.2 mg/kg	1.126	6.566 mg/kg	0.000657 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13 mg/kg	1.56	16.425 mg/kg	0.00105 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		6.8 mg/kg	2.976	16.393 mg/kg	0.00164 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		26 mg/kg	1.785	37.596 mg/kg	0.00376 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		28 mg/kg	2.774	62.918 mg/kg	0.00629 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
16		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**
17		benzene 601-020-00-8	200-753-7	71-43-2		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
18		toluene 601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
19		ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<**LOD**
20		xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<**LOD**
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 } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**
22		pH		PH		6.7 pH		6.7 pH	6.7 pH		
23		naphthalene 601-052-00-2	202-049-5	91-20-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
24		acenaphthylene	205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
25		acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
26		fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
27		phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
28		anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
29		fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
30		pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
31		benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
32		chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
33		benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
34		benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
35		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
36		indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
37		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**
38		benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
39		sulfur { sulphur dichloride } 016-013-00-X	234-129-0	10545-99-0		<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %		<**LOD**
40		monohydric phenols		P1186		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
								Total:	0.0244 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP30--04112024-0.20

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

Sample details

Sample name:
TP30--04112024-0.20
Sample Depth:
0.20 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.4 mg/kg	1.32	7.014 mg/kg	0.000701 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		23 mg/kg	1.623	30.992 mg/kg	0.0031 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.35 mg/kg	2.775	0.806 mg/kg	0.0000806 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	1.871 mg/kg	0.000187 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5.4 mg/kg	1.126	5.046 mg/kg	0.000505 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11 mg/kg	1.56	14.241 mg/kg	0.000913 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9.3 mg/kg	2.976	22.974 mg/kg	0.0023 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		34 mg/kg	1.785	50.378 mg/kg	0.00504 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		27 mg/kg	2.774	62.169 mg/kg	0.00622 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		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									
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				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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				6.6	pH		6.6	pH	6.6 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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		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									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
										Total:	0.0267 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP31--06112024-0.30

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

Sample details

Sample name:
TP31--06112024-0.30
Sample Depth:
0.30 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	12.636 mg/kg	0.00126 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		26 mg/kg	1.623	36.723 mg/kg	0.00367 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.48 mg/kg	2.775	1.159 mg/kg	0.000116 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.8 mg/kg	3.22	2.241 mg/kg	0.000224 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.5 mg/kg	1.126	7.346 mg/kg	0.000735 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11 mg/kg	1.56	14.927 mg/kg	0.000957 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10 mg/kg	2.976	25.894 mg/kg	0.00259 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		35 mg/kg	1.785	54.359 mg/kg	0.00544 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		28 mg/kg	2.774	67.578 mg/kg	0.00676 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
22		pH			PH		7.2	pH		7.2	pH	7.2 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		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
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
											Total:	0.03 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP32--06112024-0.20

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

Sample details

Sample name:
TP32--06112024-0.20
Sample Depth:
0.20 m
Moisture content:
16%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.4 mg/kg	1.32	9.316 mg/kg	0.000932 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		32 mg/kg	1.623	43.639 mg/kg	0.00436 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.48 mg/kg	2.775	1.119 mg/kg	0.000112 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.5 mg/kg	3.22	1.352 mg/kg	0.000135 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.192 mg/kg	0.0000192 %	✓	
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.2 mg/kg	1.126	7.755 mg/kg	0.000776 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18 mg/kg	1.56	23.584 mg/kg	0.00151 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10 mg/kg	2.976	25.001 mg/kg	0.0025 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		27 mg/kg	1.785	40.488 mg/kg	0.00405 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		39 mg/kg	2.774	90.881 mg/kg	0.00909 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		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									
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				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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				5.8	pH		5.8	pH	5.8 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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		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									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
										Total:	0.0309 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP34--06112024-0.30

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

Sample details

Sample name:
TP34--06112024-0.30
Sample Depth:
0.30 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.9	mg/kg	1.32	9.753	mg/kg	0.000975 %	✓	
2		barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		41	mg/kg	1.623	55.247	mg/kg	0.00552 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.64	mg/kg	2.775	1.474	mg/kg	0.000147 %	✓	
4		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.5	mg/kg	3.22	1.336	mg/kg	0.000134 %	✓	
5		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
6		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26	mg/kg	1.462	38	mg/kg	0.0038 %		
7		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<LOD
8		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7	mg/kg	1.126	6.541	mg/kg	0.000654 %	✓	
9		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12	mg/kg	1.56	15.536	mg/kg	0.000996 %	✓	
10		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
11		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13	mg/kg	2.976	32.114	mg/kg	0.00321 %	✓	
12		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1.2	mg/kg	2.554	2.544	mg/kg	0.000254 %	✓	
13		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		42	mg/kg	1.785	62.232	mg/kg	0.00622 %	✓	
14		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		36	mg/kg	2.774	82.891	mg/kg	0.00829 %	✓	
15		TPH (C6 to C40) petroleum group			TPH		<20	mg/kg		<20	mg/kg	<0.002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
22		pH			PH		7.5	pH		7.5	pH	7.5 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		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
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
											Total:	0.0347 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP36--06112024-0.45

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

Sample details

Sample name:
TP36--06112024-0.45
Sample Depth:
0.45 m
Moisture content:
19%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	11.764 mg/kg	0.00118 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		29 mg/kg	1.623	38.135 mg/kg	0.00381 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.57 mg/kg	2.775	1.281 mg/kg	0.000128 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1 mg/kg	3.22	2.608 mg/kg	0.000261 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		35 mg/kg	1.462	51.154 mg/kg	0.00512 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6.4 mg/kg	1.126	5.837 mg/kg	0.000584 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	8.7 mg/kg	1.56	10.992 mg/kg	0.000705 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11 mg/kg	2.976	26.519 mg/kg	0.00265 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		54 mg/kg	1.785	78.084 mg/kg	0.00781 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		32 mg/kg	2.774	71.906 mg/kg	0.00719 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
22		pH			PH		7.6	pH		7.6	pH	7.6 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		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
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
											Total:	0.0341 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP37--06112024-0.20

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

Sample details

Sample name:
TP37--06112024-0.20
Sample Depth:
0.20 m
Moisture content:
23%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	14.233 mg/kg	0.00142 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		35 mg/kg	1.623	43.753 mg/kg	0.00438 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.41 mg/kg	2.775	0.876 mg/kg	0.0000876 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.8 mg/kg	3.22	1.983 mg/kg	0.000198 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.3 mg/kg	1.142	0.264 mg/kg	0.0000264 %	✓	
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9 mg/kg	1.126	7.802 mg/kg	0.00078 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	28 mg/kg	1.56	33.63 mg/kg	0.00216 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		8.6 mg/kg	2.976	19.709 mg/kg	0.00197 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		1 mg/kg	2.554	1.966 mg/kg	0.000197 %	✓	
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		31 mg/kg	1.785	42.612 mg/kg	0.00426 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		33 mg/kg	2.774	70.491 mg/kg	0.00705 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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**
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
22		pH			PH		5.9	pH		5.9	pH	5.9 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
29		fluoranthene		205-912-4	206-44-0		0.05	mg/kg		0.0385	mg/kg	0.00000385 %	✓	
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
37		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**
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<**LOD**
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
											Total:	0.0296 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP38--06112024-0.40

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

Sample details

Sample name:
TP38--06112024-0.40
Sample Depth:
0.40 m
Moisture content:
18%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	15.157 mg/kg	0.00152 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		40 mg/kg	1.623	53.25 mg/kg	0.00532 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.63 mg/kg	2.775	1.434 mg/kg	0.000143 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.6 mg/kg	3.22	1.584 mg/kg	0.000158 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		32 mg/kg	1.462	46.77 mg/kg	0.00468 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.6 mg/kg	1.126	7.017 mg/kg	0.000702 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18 mg/kg	1.56	23.023 mg/kg	0.00148 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.976	36.608 mg/kg	0.00366 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		54 mg/kg	1.785	79.048 mg/kg	0.0079 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		120 mg/kg	2.774	272.976 mg/kg	0.0273 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
22		pH			PH		7.4	pH		7.4	pH	7.4 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		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
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
											Total:	0.0576 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP39--04112024-0.40

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

Sample details

Sample name:
TP39--04112024-0.40
Sample Depth:
0.40 m
Moisture content:
19%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	8.556 mg/kg	0.000856 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		26 mg/kg	1.623	34.19 mg/kg	0.00342 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.44 mg/kg	2.775	0.989 mg/kg	0.0000989 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.9 mg/kg	3.22	2.347 mg/kg	0.000235 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		3.4 mg/kg	1.126	3.101 mg/kg	0.00031 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	9 mg/kg	1.56	11.371 mg/kg	0.000729 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9.1 mg/kg	2.976	21.938 mg/kg	0.00219 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		41 mg/kg	1.785	59.286 mg/kg	0.00593 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		23 mg/kg	2.774	51.682 mg/kg	0.00517 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
22		pH			PH		6.9	pH		6.9	pH	6.9 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		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
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
											Total:	0.0272 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP01--08112024-0.15

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

Sample details

Sample name:
TP01--08112024-0.15
Sample Depth:
0.15 m
Moisture content:
20%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.1 mg/kg	1.32	8.556 mg/kg	0.000856 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		30 mg/kg	1.623	38.963 mg/kg	0.0039 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.46 mg/kg	2.775	1.021 mg/kg	0.000102 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.5 mg/kg	3.22	1.288 mg/kg	0.000129 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.2 mg/kg	1.142	0.183 mg/kg	0.0000183 %	✓	
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28 mg/kg	1.462	40.924 mg/kg	0.00409 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	11.709 mg/kg	0.00117 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23 mg/kg	1.56	28.701 mg/kg	0.00184 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9.4 mg/kg	2.976	22.382 mg/kg	0.00224 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		36 mg/kg	1.785	51.413 mg/kg	0.00514 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		42 mg/kg	2.774	93.211 mg/kg	0.00932 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<**LOD**

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
22		pH			PH		7.2	pH		7.2	pH	7.2 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
37		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
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
											Total:	0.0335 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP03--07112024-0.40

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

Sample details

Sample name:
TP03--07112024-0.40
Sample Depth:
0.40 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	15.342 mg/kg	0.00153 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		44 mg/kg	1.623	59.289 mg/kg	0.00593 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78 mg/kg	2.775	1.797 mg/kg	0.00018 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1.3 mg/kg	3.22	3.474 mg/kg	0.000347 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		41 mg/kg	1.462	59.924 mg/kg	0.00599 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.126	10.279 mg/kg	0.00103 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16 mg/kg	1.56	20.714 mg/kg	0.00133 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.976	41.995 mg/kg	0.0042 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		55 mg/kg	1.785	81.494 mg/kg	0.00815 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		49 mg/kg	2.774	112.825 mg/kg	0.0113 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number											
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									
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				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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				9	pH		9	pH	9pH		
				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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		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									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
										Total:	0.0447 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP04--07112024-0.30

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

Sample details

Sample name:
TP04--07112024-0.30
Sample Depth:
0.30 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.6	mg/kg	1.32	7.494	mg/kg	0.000749 %	✓	
2		barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		19	mg/kg	1.623	26.528	mg/kg	0.00265 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.31	mg/kg	2.775	0.74	mg/kg	0.000074 %	✓	
4		boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.5	mg/kg	3.22	1.385	mg/kg	0.000138 %	✓	
5		cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<**LOD**
6		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30	mg/kg	1.462	43.847	mg/kg	0.00438 %		
7		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<**LOD**
8		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6.4	mg/kg	1.126	6.197	mg/kg	0.00062 %	✓	
9		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	9.1	mg/kg	1.56	12.207	mg/kg	0.000783 %	✓	
10		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
11		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		6.3	mg/kg	2.976	16.125	mg/kg	0.00161 %	✓	
12		selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<**LOD**
13		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		31	mg/kg	1.785	47.593	mg/kg	0.00476 %	✓	
14		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		23	mg/kg	2.774	54.873	mg/kg	0.00549 %	✓	
15		TPH (C6 to C40) petroleum group			TPH		<20	mg/kg		<20	mg/kg	<0.002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		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									
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				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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				7.3	pH		7.3	pH	7.3 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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		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									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
										Total:	0.026 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP05--07112024-0.20

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

Sample details

Sample name:
TP05--07112024-0.20
Sample Depth:
0.20 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.1 mg/kg	1.32	8.877 mg/kg	0.000888 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		28 mg/kg	1.623	37.729 mg/kg	0.00377 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.46 mg/kg	2.775	1.06 mg/kg	0.000106 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		1 mg/kg	3.22	2.672 mg/kg	0.000267 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	13.083 mg/kg	0.00131 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	29 mg/kg	1.56	37.545 mg/kg	0.00241 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9.3 mg/kg	2.976	22.974 mg/kg	0.0023 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		35 mg/kg	1.785	51.86 mg/kg	0.00519 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		46 mg/kg	2.774	105.917 mg/kg	0.0106 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		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**
17		benzene	601-020-00-8	200-753-7	71-43-2		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
18		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
19		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
20		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<**LOD**
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 }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
22		pH			PH		6.7	pH		6.7	pH	6.7 pH		
23		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
24		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
26		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
28		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
29		fluoranthene		205-912-4	206-44-0		0.08	mg/kg		0.0664	mg/kg	0.00000664 %	✓	
30		pyrene		204-927-3	129-00-0		0.08	mg/kg		0.0664	mg/kg	0.00000664 %	✓	
31		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
32		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
33		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
34		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
35		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
36		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
37		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**
38		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
39		sulfur { sulphur dichloride }	016-013-00-X	234-129-0	10545-99-0		<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<**LOD**
40		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
											Total:	0.0347 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor 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: TP25--07112024-0.30

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

Sample details

Sample name:
TP25--07112024-0.30
Sample Depth:
0.30 m
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.8 mg/kg	1.32	7.721 mg/kg	0.000772 %	✓	
2	barium { barium diboron tetraoxide }	056-005-00-3	237-222-4	13701-59-2		20 mg/kg	1.623	27.924 mg/kg	0.00279 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.46 mg/kg	2.775	1.098 mg/kg	0.00011 %	✓	
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		0.4 mg/kg	3.22	1.108 mg/kg	0.000111 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<**LOD**
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6.4 mg/kg	1.126	6.197 mg/kg	0.00062 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	6.3 mg/kg	1.56	8.451 mg/kg	0.000542 %	✓	
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<**LOD**
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9.1 mg/kg	2.976	23.292 mg/kg	0.00233 %	✓	
12	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<**LOD**
13	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		37 mg/kg	1.785	56.805 mg/kg	0.00568 %	✓	
14	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		26 mg/kg	2.774	62.03 mg/kg	0.0062 %	✓	
15	TPH (C6 to C40) petroleum group			TPH		<20 mg/kg		<20 mg/kg	<0.002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		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									
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				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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				<0.05	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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		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									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			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				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
										Total:	0.0277 %		

Key

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

Appendix A: Classifier defined and non GB MCL determinands

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

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

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

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

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

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Appendix B: Rationale for selection of metal species

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

barium {barium diboron tetraoxide}

There isn't enough barium and Cr(VI) to make the barium chromate

beryllium {beryllium oxide}

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

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

cadmium {cadmium oxide}

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

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

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

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

Worst case species based on hazard statements/molecular weight

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species selected

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight

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]

sulfur {sulphur dichloride}

Worst case species selected

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2025.7.6439.11737 (07 Jan 2025)
HazWasteOnline Database: 2025.7.6439.11737 (07 Jan 2025)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023
GB MCL List v3.0 - version 3.0 of 11th January 2024
GB MCL List v4.0 - version 4.0 of 2nd March 2024
GB MCL List v5.0 - version 5.0 of 26th June 2024