

**PHASE 2
GEOTECHNICAL AND GEO-ENVIRONMENTAL
SITE INVESTIGATION**

**PARCEL 7
HOGWOOD FARM
(FINCHWOOD PARK DEVELOPMENT)**

FOR

**CALA HOMES THAMES AND
LEGAL & GENERAL HOMES LIMITED**

ISSUE 2



41623-023

17 January 2022

**PHASE 2
GEOTECHNICAL AND GEO-ENVIRONMENTAL
SITE INVESTIGATION**

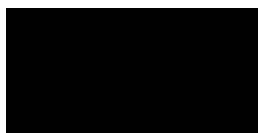
**PARCEL 7
HOGWOOD FARM
(FINCHWOOD PARK DEVELOPMENT)**

**FOR
CALA HOMES THAMES AND
LEGAL & GENERAL HOMES LIMITED**

ISSUE 2

Job No. : 41623
Report Status : Final
Document Date : 17 January 2022

Approved :



Ruth Noble

CONTENTS

1.0	EXECUTIVE SUMMARY	6
2.0	INTRODUCTION.....	8
2.1	Terms of Reference	8
2.2	Context	8
2.3	Aims and Objectives	8
2.4	Scope of Investigation.....	8
2.5	Limitations of Investigation	9
3.0	SITE DESCRIPTION.....	10
4.0	SUMMARY OF PHASE 1 ASSESSMENT	11
4.1	Site History	11
4.2	Geology	11
4.3	Hydrogeology.....	12
4.4	Hydrology.....	12
4.5	Ground Gas	12
4.6	Potential Pollutant Linkages	12
5.0	GROUND INVESTIGATION.....	14
5.1	Site Works	14
5.2	Laboratory Testing	14
6.0	GROUND CONDITIONS.....	15
6.1	Surface Covering	15
6.2	Made Ground.....	15
6.3	Topsoil	15
6.4	Natural Ground	15
6.5	Obstructions.....	15
6.6	Groundwater	16
7.0	GEOTECHNICAL APPRAISAL	17
7.1	General	17
7.2	Laboratory Testing	17
7.3	In-Situ Testing.....	17
7.4	Foundations	18

7.5	Ground Floors	19
7.6	Superstructure Precautions	19
7.7	Excavation Problems	19
7.8	Obstructions	19
7.9	Surface Water Drainage	19
7.10	Roadworks	19
7.11	Limitations	19
8.0	REFINEMENT OF OUTLINE CONCEPTUAL MODEL	20
8.1	Source Characterisation	20
8.2	Ground Conditions	20
8.3	Gas Precautions	20
8.4	Unexpected Contamination	20
8.5	Chemical Testing	20
8.6	Assessment Criteria	21
8.7	Chemical Test Results	21
	8.7.1 Made Ground	21
	8.7.2 Topsoil	22
	8.7.3 Natural Ground	22
8.8	Sulphates	22
8.9	Significant Pollutant Linkages	23
9.0	RISK ASSESSMENT	24
9.1	Human Health – Future Residents and Visitors	24
9.2	Human Health – Construction Workers	24
9.3	Plants	25
9.4	Gas Precautions	25
9.5	Controlled Waters	25
9.6	Construction Materials	25
9.7	Limitations	25

APPENDICES

- Appendix 1** Exploratory Hole Location Plan, drawing reference 41623/017A
- Appendix 2** Trial Pit Logs
Window Sample Logs
- Appendix 3** Groundwater Monitoring Report
- Appendix 4** Chemical Test Results, Chemtest reports 21-05274, 21-33825, 21-34147, 21-37242
Table of Assessment Values
- Appendix 5** Geotechnical Test Results

1.0 EXECUTIVE SUMMARY

1. The site is part of the wider Finchwood Park Development, accessed off Sheerlands Road, around 1 km to the south of Arborfield Garrison in Berkshire.
2. It predominantly comprises former agricultural greenfield land, with the exception of an area in the east which is occupied by a barn and laydown area, currently being used for building material storage, with a bund running along the western edge.
3. The solid geology is shown to comprise the London Clay Formation and no superficial deposits are indicated.
4. The bedrock is classified as Unproductive Strata and the site does not lie within a groundwater Source Protection Zone.
5. No radon precautions or ground gas protective measures are considered to be required.
6. The ground conditions comprise topsoil, over firm becoming stiff clay deposits of the weathered and unweathered London Clay Formation. Made ground was encountered at the surface in the vicinity of the barn in the east of the site.
7. Groundwater was not encountered during the investigation, however previous groundwater monitoring has suggested that shallow groundwater may be present, particularly during wetter months.
8. Traditional strip and trench fill foundations are expected to be appropriate, taken through any made ground and founded at a minimum depth of 900 mm in natural clay strata.
9. Foundations will require deepening where within the influence of trees, in accordance with NHBC Standards Chapter 4.2. Heave precautions will be required wherever the foundation depth exceeds 1.5 m due to the influence of past or present trees.
10. Plots near to the perimeter of the site will likely need to be piled due to the proximity of mature trees. Analysis has shown that conventional driven piles should be sufficient.
11. It is assumed that precast concrete floors with a minimum 150 mm high ventilated void beneath will be used. The ventilated void height will need to be increased to 250 mm where heave precautions are required.
12. Soakaways are not considered to be a viable form of surface water drainage due to the presence of cohesive strata.

13. The made ground around the barn in the east of the site was found to contain elevated concentrations of polycyclic aromatic hydrocarbons and is not considered physically or chemically suitable to remain at surface in gardens or across areas of soft landscaping. Where it is not removed from these areas it will need to be capped with at least 600 mm of clean soil including a minimum of 100 mm of topsoil.
14. The material within the bund is unsuitable for reuse within 600 mm of the surface in gardens or landscaped areas, but could be used to raise levels below areas of hardstanding, if deemed geotechnically suitable.
15. One PAH compound was recorded at a slightly elevated concentration within the topsoil however due to mixing and dilution which will occur as part of the topsoil strip, no remedial measures are considered necessary as the topsoil is considered suitable for re-use.
16. No elevated concentrations of contaminants were identified within the natural ground. Therefore, this can be considered suitable for re-use.
17. No sulphate precautions are required for concrete in contact with the natural ground. However, concrete in contact with the made ground requires DS-2 AC-2 sulphate precautions.
18. The conclusions made in this report are subject to agreement by the approving bodies and your warranty provider.

2.0 INTRODUCTION

2.1 Terms of Reference

This report presents the findings of a Phase 2 (intrusive) geotechnical and geo-environmental site investigation carried out by Eastwood & Partners (Consulting Engineers) Ltd for CALA Homes Thames and Legal & General Homes Limited. Any other parties using the information in this report do so at their own risk and any duty of care is excluded.

2.2 Context

Eastwood & Partners have undertaken two previous phases of investigation which include sections of Parcel 7:

- Report reference 41623-002, dated 21 August 2017; and
- Report reference 41623-013, dated 16 March 2021.

The above reports should be read in conjunction with this report.

No other intrusive site investigations are known to have been undertaken on the site in the past.

2.3 Aims and Objectives

The aims and objectives of this investigation were as follows. To:

- Detail the ground conditions and their geotechnical properties enabling outline foundation proposals to be made for the proposed development;
- Carry out tiered risk assessment to establish the likely risks to future receptors, involving the use of generic assessment criteria and where unacceptable risks are identified, site specific assessment criteria within a detailed quantitative risk assessment;
- Identify feasible remediation options if unacceptable risks are highlighted; and
- Develop an appropriate remediation strategy where remediation is required.

2.4 Scope of Investigation

The investigation consisted of intrusive site works and laboratory analysis. The findings were used to test the conceptual model and produce a final risk assessment.

The intrusive works comprised the excavation of trial pits which were excavated to enable:

- Examination of the upper few metres of ground;
- In situ description of soils, enabling any localised lateral and vertical changes in soil conditions to be logged;
- Assessment of any contamination identified using visual and olfactory methods; and
- Collection of soil samples for geotechnical and chemical testing.

A number of cable percussion boreholes were also undertaken for the purposes of determining the ground conditions at depth to assist with pile design.

2.5 Limitations of Investigation

This report is based on the assumption that the site will be developed with low-rise conventional housing with private gardens, areas of soft landscaping and associated infrastructure including roads and driveways. It is not thought that ground levels will be modified significantly. If this is not the case, further advice may be needed.

Where assessments of site areas affected in particular ways are given, these are approximate. All information, comments and opinions given in this report are based on the ground conditions encountered during the site work and on the results of laboratory testing carried out as part of the investigation. However, there may be conditions at the site that have not been taken into account, such as unpredictable soil strata and water conditions between or below investigation points. It should be noted that groundwater levels vary due to seasonal or other effects, and may at times differ from those measured during the investigation.

This report considers the ground and groundwater and does not cover any buildings or their fabric, or any existing hardstanding materials. Generally, testing has only been carried out for contaminants identified as potentially present with no assessment made of biological contamination. Risks to ecological receptors, such as bats, have not been considered.

3.0 SITE DESCRIPTION

Land parcel 7, which is part of the wider Finchwood Park Development, is located around 1 km to the south of Arborfield Garrison in Berkshire. Access to the site was off Sheerlands Road to the west and through the Legal & General Homes' development site.

The site has an area of approximately 2.5 hectares, is irregular in plan and comprises of a barn in the east (currently being used for building material storage) with a yard area directly to the south, which is also currently being used for building material storage. The storage area is a mixture of hard standing and compacted topsoil/made ground. A bund runs along the western edge of a laydown area surrounding the barn. The remainder of the site is former greenfield land with a haul road separating the southern third of the site from the northern two thirds.

The site is centred on grid reference 476837, 164502 and is relatively level at around 58 m AOD. Mature trees of various heights and species flank the eastern perimeter. The site is bordered by the Phase 1 development area and parcel 8 to the north, the former Hogwood Farm Industrial Estate (disused) to the east, parcel 6 to the south (former greenfield land) and parcel 2 (former greenfield land) to the west.

The information presented in this report relates solely to the 2.5 hectare piece of land known as parcel 7 (herein referred to as 'The Site'), except where specifically stated otherwise.

4.0 SUMMARY OF PHASE 1 ASSESSMENT

A Phase 1 assessment of the broader site (of which the subject site is a part of) was undertaken as part of our initial wider site investigation in 2017, reference 41623-002, and should be read in conjunction with this Phase 2 report. The pertinent points specifically relevant to the site are summarised in the sections below.

4.1 Site History

4.1.1 The Site

The historical mapping shows that the site has remained undeveloped throughout the course of the mapping period with the exception of the addition of an agricultural barn shown on the 2017 map. Google Earth historical ariel photography shows the barn to be present by 2010.

4.1.2 The Surrounding Area

The surrounding area predominantly comprises agricultural land, although a clay pit and brickworks are shown to the north-east of the site. Old sand and gravel pits are labelled beyond the extent of Hogwood Farm to the south-west (greater than 250 m away from the current subject site). By the early 20th Century a brickworks is also present around 250 m south of Hogwood Farm, and gravel pits are shown approximately 150 m south (greater than 250 m away from the current subject site) and 750 m west of Hogwood Farm.

By 1932 Arborfield Remount Depot is labelled around 750 m north of the site, although its full extent and proximity to the site is unclear. By 1938 additional brickworks are shown around 200 m to the north of the site, later developed as Hogwood Industrial Estate.

The 1961 historical map shows Arborfield Remount Depot has been renamed Arborfield Garrison, and extended up to the northern boundary of Hogwood Farm.

A residential property is shown on the 1976-79 map located immediately to the north-east of the site. The 1984 map shows Hogwood Farm Industrial Estate in its current layout around 100 m to the east, with a possible tank immediately to the west. By 1988 the attenuation pond between the two industrial estates is also shown.

4.2 Geology

The site is shown to be underlain by the London Clay Formation. Superficial deposits are not mapped across the site area. No faults are shown to cross the site.

4.3 Hydrogeology

The Envirocheck identifies that the underlying solid bedrock below the site is primarily classified as Unproductive Strata. These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

The site is not recorded as being within a groundwater Source Protection Zone.

4.4 Hydrology

The nearest surface water feature is an attenuation pond located around 100 m to the east of the site.

4.5 Ground Gas

No radon precautions are required at the site.

No landfill sites are identified within 250 m of the site within the Envirocheck.

A number of ponds are shown on historical maps of the wider Hogwood Farm site and are presumed to have been backfilled. The ponds were small features and are expected to have been shallow, and therefore the risk of significant gas generation and subsequent migration was considered to be low.

There is one area of potentially infilled land identified within 250 m of the site in the Envirocheck. This is located to the north of the site, and is thought to refer to Hogwood Shaw brickworks which were shown to be present on the 1938 historical map. No pits are however, shown in conjunction with this brickworks, but a pond is later shown immediately to the north-west of the brickworks. This is assumed to be the former clay pit. The pond is present on the most recent mapping indicating that it has not been backfilled.

A significant depth of made ground (>2 m) is not anticipated beneath the site.

Ground gas protective measures are therefore not considered to be necessary at this stage.

4.6 Potential Pollutant Linkages

The table overleaf details the possible sources and associated contaminants of concern, pathways and receptors which were identified by the Phase 1 report:

Source	Potential Contaminants	Potential Pathways	Potential Receptors
Made ground in east of site used for building materials storage	- Heavy metals/metalloids and polycyclic aromatic hydrocarbons (PAHs) - Asbestos	Ingestion, inhalation, direct contact	- Future site occupants and visitors - Site construction workers - Plants
		Direct contact	Water supply pipes
		Migration through ground	Controlled waters
	Sulphates	Direct contact	Sub-surface concrete structures
Topsoil	- Heavy metals/metalloids and polycyclic aromatic hydrocarbons (PAHs) - Pesticides	Ingestion, inhalation, direct contact	- Future site occupants and visitors - Site construction workers - Plants
Natural ground	Sulphates	Direct contact	Below ground concrete

5.0 GROUND INVESTIGATION

5.1 Site Works

Eastwood & Partners visited site between 15 and 17 February 2021 and excavated ten trial pits, TP17 and TP30 to TP38, across the site to determine the underlying ground conditions. Two cable percussion boreholes, BH04 and BH05, was also undertaken to determine the deeper ground conditions for pile design purposes.

Eastwood & Partners revisited the site on the 23 and 24 September 2021 and excavated an additional three trial pits, TP214 to TP216. Then on 18 October 2021 a further four trial pits, TP301 to 304, were carried out in the previously inaccessible barn yard area. TP301 and TP302 were located in the laydown area around the barn and TP303 and TP304 were located in the bund.

Copies of all exploratory hole logs are presented in Appendix 2, and their locations are plotted on the Exploratory Hole Location Plan, Drawing number 41623/017A in Appendix 1.

5.2 Laboratory Testing

Following the site visit in February 2021 six samples of topsoil, a single sample of made ground, and three samples of natural ground were dispatched for chemical testing. An additional seven samples of topsoil and natural ground were dispatched for chemical testing in September 2021. Eight samples, including six samples of made ground and two samples of natural ground, were then dispatched for testing following the October 2021 phase of site work.

Soil samples were taken in 500 g plastic tubs and 250 ml amber glass jars and were analysed at Chemtest Laboratories, using MCERTs accredited methodologies where available.

The chemical test results are presented in Appendix 4 and are discussed further in Sections 8 and 9.

Four disturbed samples of natural ground were sent for geotechnical testing at PSL Laboratories in February 2021. An additional disturbed sample of natural ground from the barn area was sent to Geolabs for geotechnical testing in October 2021. The geotechnical test results are presented in Appendix 5 and are discussed further in Section 7.

6.0 GROUND CONDITIONS

6.1 Surface Covering

The site is surfaced with grass and scrub vegetation over topsoil. A small area of concrete is present in the vicinity of the barn in the east of the site, as well as compacted hardcore forming the laydown area and haulage road across the south of the site. On the second site visit the vegetation had been removed and the natural ground in some areas had been disturbed as a result of stockpiling and material and vehicle movement.

6.2 Made Ground

Made ground was encountered from ground surface to between 0.4 and 0.8 m below ground level (bgl) at three localities in the vicinity of the barn in the east of the site. This comprised silty, sandy clay with gravel of brick, concrete, sandstone and ceramic. The bund was also found to comprise made ground described as silty, sandy clay with gravel of brick, concrete, sandstone and ceramic.

6.3 Topsoil

Outside of the barn and yard area in the east, topsoil was encountered across the site from ground surface to depths between 0.1 m to 0.5 m bgl. The topsoil comprised sandy, silty, organic clay.

6.4 Natural Ground

Natural ground of the weathered London Clay Formation was encountered beneath the topsoil or made ground. This comprised firm, brown mottled orange and grey, silty clay considered to be representative of the weathered London Clay Formation. All of the trial pits terminated within this stratum at depths between 2.2 m and 3.0 m bgl. Within the cable percussion boreholes, the base of this stratum was encountered at depths between 3.1 m and 3.3 m bgl.

Beneath this weathered stratum, unweathered deposits of the London Clay Formation were encountered, typically as stiff, brownish grey clay with occasional shell fragments. The cable percussion boreholes terminated within this material at 15.5 m bgl.

6.5 Obstructions

No obstructions were encountered during the site investigation.

6.6 Groundwater

All of the trial pits remained dry whilst open. Groundwater strikes were not recorded in any of the cable percussion boreholes.

Eastwood & Partners undertook a programme of groundwater monitoring across the wider Hogwood Farm site between July 2018 and June 2019. The results of this were reported on in our Groundwater Monitoring Report, reference 41623/007, dated 21 August 2019. A copy of this report is enclosed in Appendix 3. One monitoring well was situated within parcel 7 and the peak groundwater level was recorded to be at 0.66 m bgl. Therefore, shallow groundwater may impact the excavation of trenches, particularly during wetter months.

7.0 GEOTECHNICAL APPRAISAL

7.1 General

Our investigations indicate that the ground conditions beneath site are homogenous with little variation noted. The ground conditions comprise topsoil, or made ground in the barn and yard area, over natural deposits of the London Clay Formation. Groundwater was not encountered in any of the exploratory holes, but previous groundwater monitoring has indicated the presence of shallow groundwater.

7.2 Laboratory Testing

Five samples of the natural cohesive ground from the weathered London Clay Formation were sent for geotechnical laboratory testing. The samples recorded modified plasticity indices of between 20.5% to 40%. It should be noted that 40% is on the lower boundary of high volume change potential (VCP) soils, however the modified plasticity indices in the remaining samples, taken from across the site, correspond to medium volume change potential soils. It is therefore recommended that the cohesive soils across the entirety of the site are assumed to have medium volume change potential.

None of the samples tested are indicated to be potentially desiccated.

Pit	Depth (m)	Water Content (%)	Liquid Limit (%)	Liquid limit x 0.4 (%)	Potentially desiccated?	Modified Plasticity Index (%)	Volume change potential
TP30	1.0	21	40	16	No	20.58	Medium
TP33	1.5	31	68	27.7	No	40	High
TP36	1.0	27	55	22	No	30	Medium
TP37	0.7	26	59	23.6	No	33	Medium
TP301	2.3	25.6	43	17.2	No	24	Medium

7.3 In-Situ Testing

In-situ hand shear vane testing undertaken on the orangish brown weathered London Clay Formation between 0.5 m and 2 m bgl recorded undrained shear strengths between 50 to 95 kN/m², with an average reading of 69 kN/m².

In-situ SPT testing was undertaken in each cable percussion borehole at either 1.5 m or 3 m intervals. The table overleaf summarises the N-values recorded.

Strata	N-Values Recorded		
	BH04	BH05	Average
Weathered London Clay	13	11	12
London Clay <10m bgl	19 to 33	21 to 35	27
London Clay >10m bgl	34 to 47	35 to 38	39

The table above shows that N-values varied from 11 to 47 and increased with depth throughout each borehole.

7.4 Foundations

For the majority of the dwellings, it is expected that traditional strip and trench fill foundations, taken onto natural non-desiccated cohesive strata of the weathered London Clay Formation, are expected to be appropriate. The geotechnical testing has shown that the soils should be assigned a medium volume change potential and therefore a minimum founding depth of 900 mm below existing or finished ground level (whichever is the deeper) will apply. At this depth an allowable bearing capacity of 125 kN/m² is likely to be achievable.

Foundations within clay soils will need to be deepened in accordance with NHBC Standards, Chapter 4.2 where past, present or proposed trees are within influencing distance of the foundation. Heave precautions should be included where the footing depth due to past or present trees is in excess of 1500 mm.

Consideration should be given to tree influence at an early stage. Buildings are likely to need to be piled wherever the depth due to trees exceeds 2.5 m.

Due to the possibility of shallow groundwater, particularly during wetter months, excavations should not be left open for prolonged periods. Methods such as dig and pour or sump and pump may be required to mitigate against shallow groundwater.

Piling is only expected to be required towards the perimeter of the site where mature trees are present. Given the site is generally surfaced with topsoil, and as no significant obstructions were encountered, it is expected that driven piles will be appropriate. The undrained shear strengths recorded throughout the depth of the boreholes show that the clay soils beneath the site will be capable of mobilising sufficient end bearing and skin friction in order to support the dwellings on conventional driven pile foundations. Detailed pile design has not been undertaken, as the specified types, spacings and surface areas of the piles that will be used is unknown, however a preliminary analysis has shown that a driven pile with a nominal diameter of 300 mm will have an allowable pile

carrying load of around 350 kN when driven to a depth of 10 m bgl. Specific pile design will need to be undertaken by the piling contractor using the information provided in this report.

7.5 Ground Floors

It is assumed that a precast concrete floor, with a ventilated void will be used. The void height should be at least 150 mm, increasing to 250 mm high where heave precautions are required.

7.6 Superstructure Precautions

Additional superstructure precautions are not considered to be required due to the ground conditions.

7.7 Excavation Problems

All of the trial pits remained dry and stable whilst open. Nonetheless, support will be required in accordance with current Health & Safety Regulations wherever access is required to trenches deeper than 1.2 m or less where there is risk of collapse.

7.8 Obstructions

Obstructions were not encountered over the course of the site works. Given the site's former agricultural use it is not expected that significant obstructions will be encountered.

7.9 Surface Water Drainage

Given the cohesive nature of the natural strata encountered, surface water drainage via ground soakage is unlikely to be viable for the proposed development.

7.10 Roadworks

Based upon the ground conditions observed, a CBR value of at least 2% is likely to be applicable. It is recommended that CBR tests are undertaken along any proposed roads prior to construction so that accurate CBR values can be obtained. The ground should be assumed to be frost susceptible and a minimum construction thickness of 450 mm will therefore apply.

7.11 Limitations

To reiterate, the comments made above in relation to geotechnical analysis and design refer only to the 2.5 hectare barn, storage area and surrounding former agricultural land specified in Section 3 of this report.

8.0 REFINEMENT OF OUTLINE CONCEPTUAL MODEL

8.1 Source Characterisation

An outline conceptual model, detailing the possible sources and associated contaminants of concern, potential pathways and receptors identified in the Phase 1 study was detailed in Section 4.6.

This section of the report documents the works undertaken to obtain information to test and refine this model enabling a risk assessment to be produced and, where significant risks are expected, remediation recommendations.

8.2 Ground Conditions

Our investigations indicate that the site is surfaced with topsoil over weathered and unweathered deposits of the London Clay Formation. Groundwater was not encountered in any of the exploratory holes. A small area of made ground was encountered in the east of the site that is partially being used for materials storage.

8.3 Gas Precautions

No radon precautions are required at the site and no landfill sites were identified within 250 m. Made ground was not encountered to a significant depth and therefore ground gas precautions are not considered to be necessary in the construction of new dwellings.

8.4 Unexpected Contamination

Visual and olfactory evidence of possible significant contamination was not encountered in any of the exploratory holes.

8.5 Chemical Testing

Six samples of topsoil, seven samples of made ground and seven samples of natural ground were despatched for chemical testing. Each of the samples was analysed for the suite of contaminants listed overleaf:

It should be noted that during the September 2021 phase of testing both the plastic tub and glass jar for each sample were tested, resulting in two sets of chemical test results. In order to take a conservative approach, this report has assessed the highest and lowest values from each set of results.

Contaminant Type	Actual Contaminants
Metals/Metalloids	Arsenic, cadmium, chromium (VI and total), lead, mercury, nickel, selenium, copper and zinc
pH	pH
PAHs	Speciated polycyclic aromatic hydrocarbons (PAH)
Sulphates*	Water soluble sulphate, total (acid soluble sulphate) and sulphur

*Not tested in topsoil.

The samples of made ground were also screened for asbestos.

In addition to the above testing, six of the samples of made ground and two of the samples of natural ground were also tested for fully fractionated petroleum hydrocarbons (TPH CWG).

8.6 Assessment Criteria

As the site is to be developed with conventional dwellings with private gardens the assessment criteria for 'residential end-use with homegrown produce' has been adopted.

Tables detailing the relevant assessment concentrations used are included in Appendix 4.

8.7 Chemical Test Results

Copies of the chemical test results (Chemtest reports 21-05274, 21-33825, 21-34147 and 21-37242) are included in Appendix 4. Some preliminary risk assessment is undertaken in this section of the report where determinants can be readily discounted.

8.7.1 Made Ground

The seven samples of made ground tested did not record any elevated concentrations of metals/metalloids and asbestos was not detected. However, the four samples collected from the area around the barn, including the bund, recorded elevated levels of a number of polycyclic aromatic hydrocarbon (PAH) compounds, these are summarised in the table below.

PAH Compound	Assessment Value (mg/kg)	Recorded concentration (mg/kg)			
		TP301 0.3 m	TP302 0.2 m	TP303 1.5 m	TP304 1.0 m
Benzo(a)anthracene	7.2	15	13	~	~
Benzo[b]fluoranthene	2.6	24	22	5.3	4.9
Benzo[a]pyrene	2.2	21	20	4.0	3.6
Dibenz(a,h)Anthracene	0.24	2.6	2.3	0.49	0.38

It should also be noted that the sample taken at 0.3 m below the surface level of the bund from TP303 also showed slightly elevated levels of Dibenz(a,h)anthracene at 0.25 mg/kg. The generic assessment criteria for residential with homegrown produce for this contaminant is 0.24 mg/kg.

8.7.2 Topsoil

None of the samples of topsoil that were tested recorded elevated concentrations of metals/metalloids.

A single sample of topsoil, TP38 at 0.4 m, recorded an elevated concentration of dibenz(a,h)anthracene of 0.64 mg/kg compared to the assessment value of 0.24 mg/kg. None of the other samples of topsoil tested for dibenz(a,h)anthracene recorded concentrations in excess of the limit of detection of <0.10 mg/kg. Therefore, this single elevated concentration can be shown to be a statistical outlier and non-representative of the material as a bulk.

No other elevated concentrations of PAHs were detected in any of the topsoil samples tested.

Pesticides were not detected in any of the topsoil samples which were tested.

The topsoil is therefore considered suitable for reuse on site.

8.7.3 Natural Ground

None of the samples of natural ground that were tested recorded any elevated concentrations of metals/metalloids or PAHs.

Neither of the two samples of natural ground, taken during the September site investigation, recorded any detectable concentrations of petroleum hydrocarbons.

The natural ground is therefore considered suitable for reuse on site.

8.8 Sulphates

The site has been categorised as greenfield and groundwater is assumed to be mobile.

Natural Ground

Seven samples of natural ground were scheduled for pH and sulphate testing.

The pH ranged from 7.8 to 8.6.

Water soluble sulphate was recorded to be between <10 and 530 mg/l with a characteristic value of 294 mg/l.

Total potential sulphate ranged from <0.03% to 0.237% with a characteristic value of 0.215%.

Made Ground

Seven samples of made ground were scheduled for pH and sulphate testing. Two of these were samples taken from the bund, the results below therefore only refer to the five remaining samples.

The pH ranged between 8.0 and 10.6.

Water soluble sulphate was recorded to be between 192 mg/l and 560 mg/l with a characteristic value of 545 mg/l.

Total potential sulphate ranged from 0.192 to 0.78% with a characteristic value of 0.66%.

8.9 Significant Pollutant Linkages

The following significant pollutant linkages have thus been identified.

Source	Pathway	Receptor
PAHs in made ground in the bund and area around the barn	Ingestion, inhalation, direct contact. Migration through ground	Site residents, visitors and construction workers Water supply pipes Surface watercourses
Sulphates in the made ground and natural ground	Direct contact	Below ground concrete

9.0 RISK ASSESSMENT

9.1 Human Health – Future Residents and Visitors

The 0.4 to 0.8 m thick made ground identified around the barn in the east of the site is considered physically and chemically unsuitable to remain at shallow depth in gardens or across areas of soft landscaping. This material should therefore be removed from garden and landscaped areas and either placed beneath areas of hardstanding (if deemed geotechnically suitable) or disposed of off-site. Alternatively, if the made ground remains in place in gardens and landscaped areas, a 600 mm capping layer of clean soil, including at least 100 mm of topsoil, will be required.

The material contained within the bund is also deemed physically and chemically unsuitable for reuse in gardens and landscaped areas, however it could be used to raise levels below areas of hardstanding, if required and if deemed geotechnically suitable. Alternatively, it can be removed from site. In order to determine the waste classification for disposal purposes, landfill operators may request waste acceptance criteria testing on this material.

A single sample of topsoil, TP38 at 0.4 m, recorded an elevated concentration of dibenz(a,h)anthracene of 0.64 mg/kg. None of the other samples of topsoil recorded elevated concentrations of this contaminant. Therefore, during the topsoil strip the material would become mixed, diluting the elevated concentration. As a result it is considered that no further remedial measures are necessary and the topsoil is suitable for reuse.

9.2 Human Health – Construction Workers

Groundworkers employed during the construction phase of the development are most at risk of harm due to them having direct contact with affected soils. However, the contact is generally of short duration, and all competent ground workers will be aware of the potential risks associated with handling soils.

Normal site procedures such as the wearing of gloves when handling soils, and the washing of hands prior to eating should be implemented.

Any unusual, brightly coloured, ashy or odorous material or material suspected of containing asbestos encountered during construction should be brought to the attention of the site staff and investigated.

9.3 Plants

No samples of topsoil, made ground or natural ground recorded elevated phytotoxic concentrations of contaminants. The topsoil and natural ground can therefore be considered suitable for reuse across the development.

9.4 Gas Precautions

Ground gas precautions are not considered to be necessary.

9.5 Controlled Waters

Groundwater has not been encountered as part of this investigation. Some elevated concentrations of PAH compounds were recorded in the made ground however, the underlying natural ground in these locations was not found to contain elevated concentrations suggesting that significant leaching and migration is not taking place.

Therefore, the risk to controlled waters is considered to be negligible.

9.6 Construction Materials

The results of the pH and sulphate testing have demonstrated that characteristic values of water soluble sulphate and total potential sulphate within the natural ground fall into design sulphate class DS-1 and the pH results fall into an aggressive chemical environment for concrete (ACEC) class of AC-1. Therefore, no sulphate precautions will be required for below ground concrete which is in contact with the natural ground only, i.e. in the area outside of the barn yard.

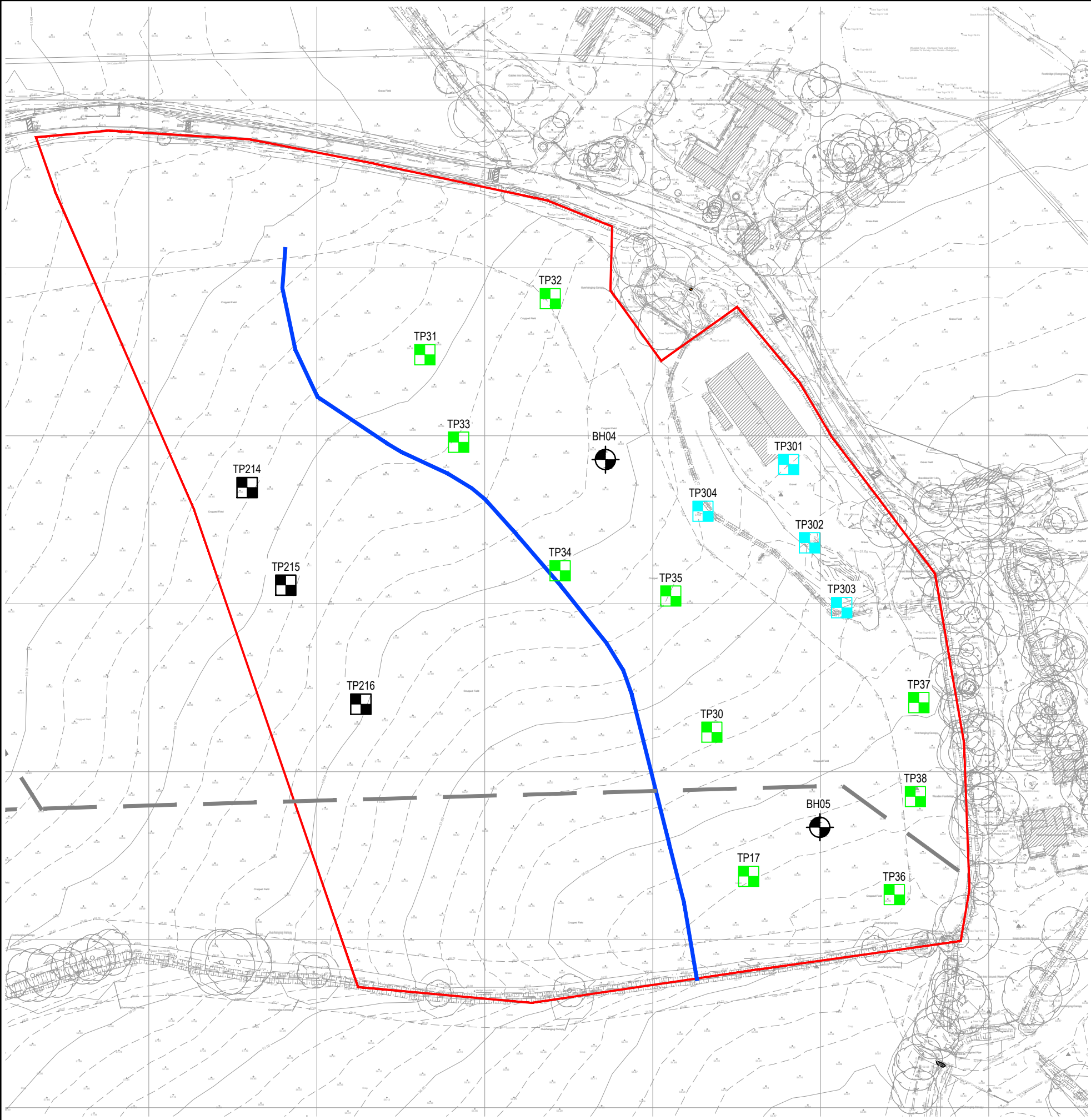
However, within the made ground, the characteristic values for water soluble sulphate and total potential sulphate are above the DS-1 threshold value of 0.24% and instead fall into DS-2. The pH of the made ground then falls into an ACEC class of AC-2. Subsurface concrete in contact with made ground i.e. in the area around the barn, should therefore include DS-2 AC-2 sulphate precautions.

9.7 Limitations

The risk assessment presented above relates solely to the 2.5 hectare land parcel 7 which includes a barn, storage area and former agricultural land. The barn should be demolished in a controlled manner in order to ensure that any potential asbestos containing material (ACM) that may be incorporated into the fabric of the building is not introduced into the shallow soils.

Appendix 1

Exploratory Hole Location Plan, drawing reference 41623/017A



INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE.
ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

KEY:			Site boundary.
			Approximate location of trial pits excavated by Eastwood & Partners between 15.02.2021 & 17.02.2021.
			Approximate location of cable percussion borehole completed on behalf of Eastwood & Partners between 15.02.2021 & 17.02.2021.
			Approximate location of drain
			Approximate location of path / track
			Approximate location of trial pit excavated by Eastwood and Partners on 18.10.2021.
			Approximate location of trial pit excavated by Eastwood and Partners on 24.09.2021.

B	Site boundary amended, TP303 & TP304 repositioned.	RB	ME	18.01.22
A	First Issue.			
REV	DESCRIPTION	SIG	CHK	DATE

CALA HOMES THAMES & LEGAL AND
GENERAL HOMES LTD

PARCEL 7, HOGWOOD FARM

EXPLORATORY HOLE LOCATION PLAN

Eastwood & Partners
CONSULTING ENGINEERS

EOP

St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Tel 0114 255 4554
Fax 0114 255 4330

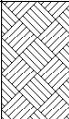
mail@eastwoodandpartners.com
www.eastwoodandpartners.com

SCALE WHEN PLOTTED AT A3 1:1250			DRAWING STATUS INFORMATION	
DRAWN CL	CHECKED ME	DATE 17.12.21	DRAWING NUMBER 41623/017	REV B

Appendix 2

Trial Pit Logs

Cable Percussion Borehole Logs

Eastwood&Partners CONSULTING ENGINEERS						TrialPit No TP17 Sheet 1 of 1	
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 16/02/2021
Location: Arborfield					Dimensions: 2.50m		Scale 1:25
Client: Legal & General Homes					Depth: 2.80m		Logged GC
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.20	D	HVP=95	0.40			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots.	
1.00	D					WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.	
1.00							
			2.80			Trialpit Complete at 2.800m	
Remarks: 1. Hand vane readings are undrained shear strength (kPa)							
Stability: 1. Trial pit remained dry and stable.							

Project Name

Hogwood Farm

Project No.

41623

Co-ords: -

Level:

Date _____

16/02/2021

Location:	Arborfield
-----------	------------

Dimensions:

2.50m

Scale

Client:

Legal & General Homes

Depth:

3.00m

0.60m

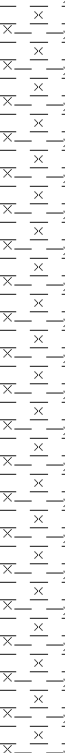
Logged
GC

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description							
Depth (m)	Type	Results											
0.20	D	HVP=70	0.30			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots.							
0.80 0.80	D					WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.							
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
													
					Trialpit Complete at 3.000m								

Remarks: 1. Hand vane readings are undrained shear strength (kPa)									
---	--	--	--	--	--	--	--	--	--

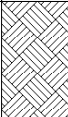
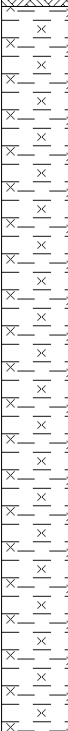
Stability: 1. Trial pit remained dry and stable.

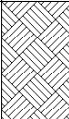
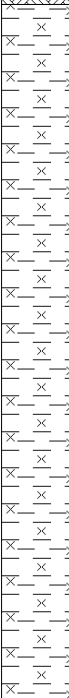
						TrialPit No TP31 Sheet 1 of 1	
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 16/02/2021
Location: Arborfield					Dimensions: 2.50m		Scale 1:25
Client: Legal & General Homes					Depth: 2.80m		Logged GC

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
1.00		HVP=60	0.30			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots.	
			2.80		WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.		
						Trialpit Complete at 2.800m	

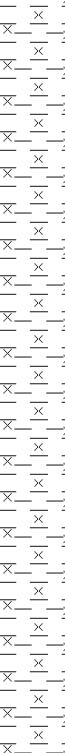
Remarks: 1. Hand vane readings are undrained shear strength (kPa)	
Stability: 1. Trial pit remained dry and stable.	

Eastwood&Partners CONSULTING ENGINEERS						TrialPit No TP32 Sheet 1 of 1	
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 16/02/2021
Location: Arborfield					Dimensions: 2.50m		Scale 1:25
Client: Legal & General Homes					Depth: 2.90m		Logged GC
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.10	D	HVP=80	0.20			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots.	
0.80						WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.	
1.00	D						
			2.90			Trialpit Complete at 2.900m	
Remarks: 1. Hand vane readings are undrained shear strength (kPa)							
Stability: 1. Trial pit remained dry and stable.							

Eastwood&Partners CONSULTING ENGINEERS								TrialPit No TP33 Sheet 1 of 1	
Project Name Hogwood Farm				Project No. 41623		Co-ords: - Level:		Date 16/02/2021	
Location: Arborfield						Dimensions: 2.50m		Scale 1:25	
Client: Legal & General Homes						Depth: 2.80m		Logged GC	
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.30	D	HVP=74	0.40			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots.			
0.90						WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.			
1.50	D								
			2.80			Trialpit Complete at 2.800m			
Remarks: 1. Hand vane readings are undrained shear strength (kPa)									
Stability: 1. Trial pit remained dry and stable.									

Eastwood&Partners CONSULTING ENGINEERS								TrialPit No TP34 Sheet 1 of 1			
Project Name Hogwood Farm				Project No. 41623		Co-ords: - Level:			Date 16/02/2021		
Location: Arborfield						Dimensions: 2.50m			Scale 1:25		
Client: Legal & General Homes						Depth: 2.70m			Logged GC		
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description					
Depth (m)	Type	Results									
0.10	D	HVP=60	0.40			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots.					1
0.60	D					WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.					
1.00											
			2.70			Trialpit Complete at 2.700m					3
											4
Remarks: 1. Hand vane readings are undrained shear strength (kPa)											
Stability: 1. Trial pit remained dry and stable.											

				TrialPit No TP35 Sheet 1 of 1			
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 17/02/2021
Location: Arborfield					Dimensions: 2.50m Depth: 2.80m		Scale 1:25 Logged GC
Client: Legal & General Homes							

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.20	D		0.30			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots.	
1.00 1.00	D	HVP=70				WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.	1
			2.80			Trialpit Complete at 2.800m	3
							4

Remarks: 1. Hand vane readings are undrained shear strength (kPa)

Stability: 1. Trial pit remained dry and stable.

Eastwood&Partners CONSULTING ENGINEERS						TrialPit No TP36 Sheet 1 of 1	
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 17/02/2021
Location: Arborfield					Dimensions: 2.50m		Scale 1:25
Client: Legal & General Homes					Depth: 3.00m		Logged GC
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.20	D	HVP=70	0.40			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots.	
0.90	D					WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.	
1.00							
			3.00		Trialpit Complete at 3.000m		
Remarks: 1. Hand vane readings are undrained shear strength (kPa)							
Stability: 1. Trial pit remained dry and stable.							

Project Name

Hogwood Farm

Project No.

41623

Co-ords: -

Level:

Date

17/02/2021

Location:	Arborfield
-----------	------------

Dimensions:

2.50m

Scale

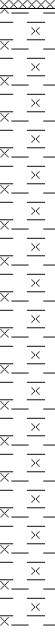
Client: Legal & General Homes

Depth:

2.50m

0.60m

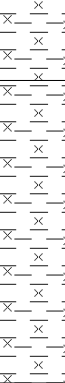
Logged
GC

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.70	D	HVP=60	0.40			MADE GROUND: Grey and brown, slightly gravelly, slightly sandy, silty CLAY. Gravel is subangular, fine to coarse brick, concrete, sandstone and ceramic.	
						WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.	
1.00							1
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							

Remarks: 1. Hand vane readings are undrained shear strength (kPa)									
---	--	--	--	--	--	--	--	--	--

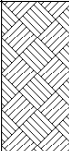
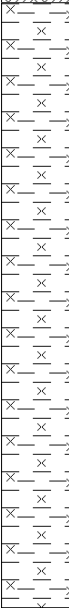
Stability: 1. Trial pit remained dry and stable.

						TrialPit No TP38 Sheet 1 of 1	
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 17/02/2021
Location: Arborfield					Dimensions: 2.50m		Scale 1:25
Client: Legal & General Homes					Depth: 2.20m		Logged GC

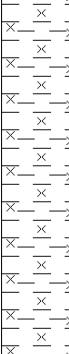
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
0.40	D	HVP=50	0.50			TOPSOIL: Dark brown, slightly sandy, silty, organic CLAY with roots and occasional brick fragments.	
0.70						WEATHERED LONDON CLAY FORMATION: Soft to firm, brown mottled orange and grey, silty CLAY.	
1.00	D					WEATHERED LONDON CLAY FORMATION: Firm, brown mottled orange and grey, silty CLAY.	
			1.20				
			2.20				
						Trialpit Complete at 2.200m	

Remarks: 1. Hand vane readings are undrained shear strength (kPa)

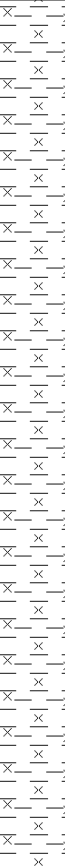
Stability: 1. Trial pit remained dry and stable.

Eastwood&Partners CONSULTING ENGINEERS						TrialPit No TP214 Sheet 1 of 1	
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 24/09/2021
Location: Arborfield					Dimensions: m		Scale 1:25
Client: Legal & General Homes					Depth: 2.50m		Logged ME
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.50			TOPSOIL: Brown sandy SILT with rootlets. Sand is fine to coarse.	
						Firm orangish brown mottled grey silty CLAY with inclusions of dark grey silt. <5mm in diameter.	
			2.50			Silty interbeds.	
						Trialpit Complete at 2.500m	
Remarks: Pit faces remained stable throughout excavation.							
Stability: Good							

Eastwood&Partners CONSULTING ENGINEERS						TrialPit No TP215 Sheet 1 of 1	
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 24/09/2021
Location: Arborfield					Dimensions: m		Scale 1:25
Client: Legal & General Homes					Depth: 2.50m		Logged ME
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.30			TOPSOIL: Brown sandy SILT. Sand is fine to coarse.	
						Firm, mottled orange and brown, slightly sandy, silty CLAY. With occasional lignite specs, sub-angular to sub-rounded, <3mm diameter.	
			2.20			Firm, mottled orangish brown and grey slightly sandy silty CLAY. Sand is fine to coarse.	
			2.50			Trialpit Complete at 2.500m	
Remarks: Pit faces remained stable throughout excavation.							
Stability: Good							

Eastwood&Partners CONSULTING ENGINEERS						TrialPit No TP216 Sheet 1 of 1	
Project Name Hogwood Farm			Project No. 41623		Co-ords: - Level:		Date 24/09/2021
Location: Arborfield					Dimensions: m		Scale 1:25
Client: Legal & General Homes					Depth: 2.60m		Logged ME
Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.30			TOPSOIL: Brown sandy SILT. Sand is fine to coarse.	
						Firm, mottled orangish brown, grey and slightly sandy silty CLAY. Sand is fine to coarse.	
							
						Lignite specs.	
						Trialpit Complete at 2.600m	
Remarks: Pit faces remained stable throughout excavation.							
Stability: Good							

Project Name Hogwood Farm		Project No. 41623	Co-ords: - Level:	Date 18/10/2021
Location: Arborfield			Dimensions: m	Scale 1:25
Client: Legal & General Homes			Depth: 3.50m	Logged ME

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			0.60			MADE GROUND: Brown gravelly SAND. Gravel is angular to rounded fine to coarse flint, brick, concrete, plastic, fabric and metal wire with concrete cobbles. Sand is fine to coarse.	
						Firm mottled grey and brown silty CLAY with large pockets silt.	1
			3.50			Trialpit Complete at 3.500m	2 3 4

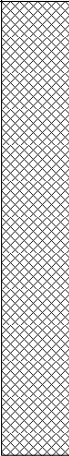
Remarks:	
Stability: Good	

Project Name Hogwood Farm	Project No. 41623	Co-ords: - Level:	Date 18/10/2021
Location: Arborfield	Dimensions: m		Scale 1:25
Client: Legal & General Homes	Depth: 4.00m	£	Logged ME

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
						MADE GROUND: Brown gravelly SAND. Gravel is angular to rounded fine to coarse flint, brick, concrete, plastic, fabric, tile and metal (nails) with concrete cobbles. Sand is fine to coarse.	
			0.80			Grey slightly gravelly SILT. Gravel is rounded fine to medium flint.	1
			1.10			Firm mottled brown and orange silty CLAY.	
						Firm grey silty CLAY.	3
			3.80				
			4.00				4
						Trialpit Complete at 4.000m	

Remarks:	
Stability: Good	

Project Name Hogwood Farm		Project No. 41623	Co-ords: - Level:	Date 18/10/2021
Location: Arborfield			Dimensions: m	Scale 1:25
Client: Legal & General Homes			Depth: 1.50m	Logged ME

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			1.50			MADE GROUND: Brown gravelly sandy CLAY. Gravel is fine to coarse angular to rounded flint, brick, tile, concrete fabric and wood. Sand is fine to coarse.	1
						Trialpit Complete at 1.500m	2
							3
							4

Remarks:	
Stability: Good	

Project Name Hogwood Farm		Project No. 41623	Co-ords: - Level:	Date 18/10/2021
Location: Arborfield			Dimensions: m	Scale 1:25
Client: Legal & General Homes			Depth: 3.00m	Logged ME

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
Depth (m)	Type	Results					
			3.00			MADE GROUND: Brown gravelly sandy CLAY. Gravel is fine to coarse angular to rounded flint, brick, tile, concrete fabric and wood. Sand is fine to coarse.	1
							2
							3
							4

Remarks:	
Stability: Good	

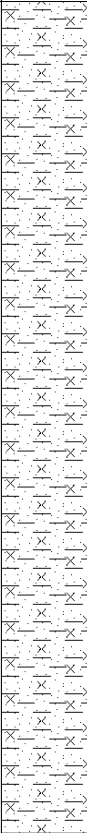
					Borehole Log			Borehole No. BH04 Sheet 1 of 2	
Project Name: Hogwood Farm					Project No. 41623		Co-ords: -		Hole Type CP
Location: Arborfield					Level:		Scale 1:50		Logged By Driller
Client: Legal & General Homes					Dates: 17/02/2021 - 17/02/2021				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.45			TOPSOIL: Brown, sandy, silty CLAY with rootlets.	
								WEATHERED LONDON CLAY FORMATION: Pale brown and orange, sandy, silty CLAY.	1
		1.55 1.55 - 2.00	D	N=13 (2,2/2,3,4,4)	2.00			WEATHERED LONDON CLAY FORMATION: Pale brown and orange, silty, sandy CLAY.	2
		3.05 3.05 - 3.50	D	N=19 (2,3/4,5,5,5)	3.10			LONDON CLAY FORMATION: Brownish grey, sandy, silty CLAY.	3
		4.55 4.55 - 5.00	D	N=22 (3,4/5,5,6,6)	4.00			LONDON CLAY FORMATION: Brownish grey, sandy, silty CLAY with occasional shell fragments.	4
		6.05 6.05 - 6.50	D	N=25 (3,4/5,6,6,8)					5
		7.55 7.55 - 8.00	D	N=29 (2,5/6,7,8,8)					6
		9.05 9.05 - 9.50	D	N=33 (3,5/7,7,9,10)					7
								8	
								9	
								10	

Continued on next sheet

Remarks

1. Descriptions above made by driller.

				Borehole Log				Borehole No. BH04 Sheet 2 of 2	
Project Name: Hogwood Farm				Project No. 41623		Co-ords: -		Hole Type CP	
Location: Arborfield				Level:		Scale 1:50			
Client: Legal & General Homes				Dates: 17/02/2021 - 17/02/2021		Logged By Driller			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.55 10.55 - 11.00	D	N=34 (4,6/6,8,9,11)	15.50				11
		12.05 12.05 - 12.50	D	N=39 (6,7/7,9,10,13)		12			
		13.35 13.55 - 14.00	D	N=47 (5,8/10,11,12,14)		13			
		15.05 15.05 - 15.50	D	N=41 (4,7/9,9,10,13)		14			
								End of borehole at 15.50 m	15
									16
									17
									18
									19
									20
Remarks 1. Descriptions above made by driller.									

					Borehole Log			Borehole No. BH05 Sheet 1 of 2	
Project Name: Hogwood Farm					Project No. 41623		Co-ords: -		Hole Type CP
Location: Arborfield					Level:		Scale 1:50		Logged By Driller
Client: Legal & General Homes					Dates: 16/02/2021 - 16/02/2021				

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.35			TOPSOIL: Brown, sandy, silty CLAY.	
								WEATHERED LONDON CLAY FORMATION: Orange brown and grey, sandy, silty CLAY.	1
		1.55 1.55 - 2.00	D	N=11 (1,2/2,2,3,4)				2	
		3.05 3.05 - 3.50	D	N=21 (2,3/4,5,5,7)	3.30			3	
		4.55 4.55 - 5.00	D	N=27 (3,5/6,7,7,7)				4	
		6.05 6.05 - 6.50	D	N=26 (3,4/5,6,7,8)				5	
		7.60 7.60 - 8.05	D	N=28 (5,6/5,6,8,9)				6	
								7	
								8	
								9	
								10	
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									

Continued on next sheet

Remarks

1. Descriptions above made by driller.

Borehole Log

Borehole No.

BH05

Sheet 2 of 2

Project Name: Hogwood Farm

Project No.
41623

Co-ords: -

Hole Type
CP

Location: Arborfield

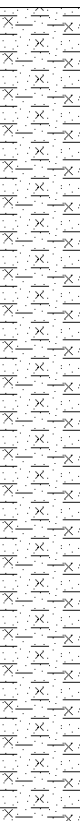
Level:

Scale
1:50

Client: Legal & General Homes

Dates: 16/02/2021 - 16/02/2021

Logged By
Driller

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		10.70 - 11.15	D	N=38 (3,4/7,9,10,12)	15.45				11	
		12.15 12.15 - 12.60	D						12	
		13.70 13.70 - 14.15	D						13	
		15.00 15.00 - 15.45	D						14	
								End of borehole at 15.45 m	15	
									16	
									17	
									18	
									19	
									20	

Remarks

1. Descriptions above made by driller.

Appendix 3

Groundwater Monitoring Report

Nick Jordan
Legal & General Homes Communities
One Coleman Street
London
EC2R 5AA

CAT/RAN/41623-007

21 August 2019

Dear Nick,

Hogwood Farm, Arborfield – Groundwater Monitoring Report

We are writing to report on the groundwater monitoring which was undertaken at this site between July 2018 and June 2019.

Monitoring visits

Monthly visits were undertaken by E&P during which, monitoring of the water depth in each of the twenty-two installed monitoring wells was undertaken. WS22, located in the SANG area in the southern part of the site could not be located and was not monitored during any of the visits. All remaining wells (WS1 to WS21 and WS23) were monitored on at least one occasion. The occasions during which monitoring could not be undertaken are listed in the table below, along with the corresponding reasons.

Monitoring well	Dates not monitored	Reason
WS2	June 2019	Well destroyed/buried by ongoing construction works in the vicinity
WS4	July to August 2018	Could not locate
WS11	December 2018 to June 2019	Well destroyed/buried during archaeological works in the vicinity
WS15	June 2019	Well monitored but found to be dry and silted up to 1.15 m
WS22	All	Could not locate well, suspect it was not installed
WS223	December 2018 to June 2019	Well destroyed/buried during archaeological works in the vicinity

In addition to the above, no monitoring was undertaken during November 2018.

Monitoring Results

The monitoring commenced in July 2018 where the water level was recorded to be between 1.2 m and 2.1 m below ground level (bgl) across the site. The water levels then dropped to

their deepest in September 2018 where they were found to be between 1.2 m and 2.7 m bgl. The levels then rose to a peak in March 2019 where the levels were found to be between 0.0 m and 0.96 m bgl. As expected, the levels then fell towards June 2019, although small rises were recorded in a few wells between May and June.

A copy of the spreadsheet outlining the monitoring results is attached along with a graph demonstrating the annual cyclical nature of the water levels.

Interpretation of Results

From the results recorded we have produced two plans showing the groundwater contours across the site;

- Drawing 41623/005 – Groundwater Monitoring Locations with Highest Water Depths; and
- Drawing 41623/006 – Groundwater Monitoring Locations with Lowest Water Depths

Copies of the plans are enclosed. These both show a similar trend with water levels being highest in the north west and north east, falling south east and south west respectively, towards the centre of the southern area of the site.

The enclosed Ordnance Survey (OS) plan shows a large number of surface watercourses and ponds both on the site and in the surrounding area. The OS extract which covers a wider area also shows a large number of surface water features, including the Blackwater River located around 550 m south of the site. A surface water drain/stream is indicated to run through the site, exiting at the centre of the southern boundary of the site. This then turns south west and flows directly to the Blackwater River. This is therefore consistent with the contours plotted from the water monitoring, which indicate the water levels to fall towards the drain/stream.

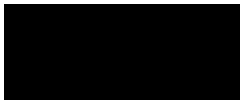
The elevation of the site is between around 52 m AOD in the south and east to around 60 m AOD in the north. The Blackwater River lies at an elevation of around 50 m AOD. It is therefore not unexpected that the groundwater is encountered at shallow depth below the site. The water depths recorded are therefore considered to represent the true groundwater level, and not a perched water table.

Conclusion

Water monitoring of twenty-two monitoring wells across the site over twelve months between July 2018 and June 2019 has demonstrated an annual cyclical pattern with water levels being

shallowest towards the end of the winter period/beginning of spring and deepest towards the end of the summer period/beginning of autumn. The water levels were observed to be relatively shallow, with water recorded at the surface on a few occasions in a small number of wells. Contour plans have been produced which indicate the groundwater is flowing towards a surface water drain/stream which exits the centre of the southern boundary of the site and flows towards the Blackwater River. The values recorded are considered to be representative of the true groundwater, and not a perched water table.

Yours sincerely



Catherine Topliss

Enc. Monitoring results spreadsheet
 Graph of monitoring results
 Drawings 41623/005 and 41623/006
 Ordnance Survey Plan and Ordnance Survey Extract

Groundwater Monitoring Results Table

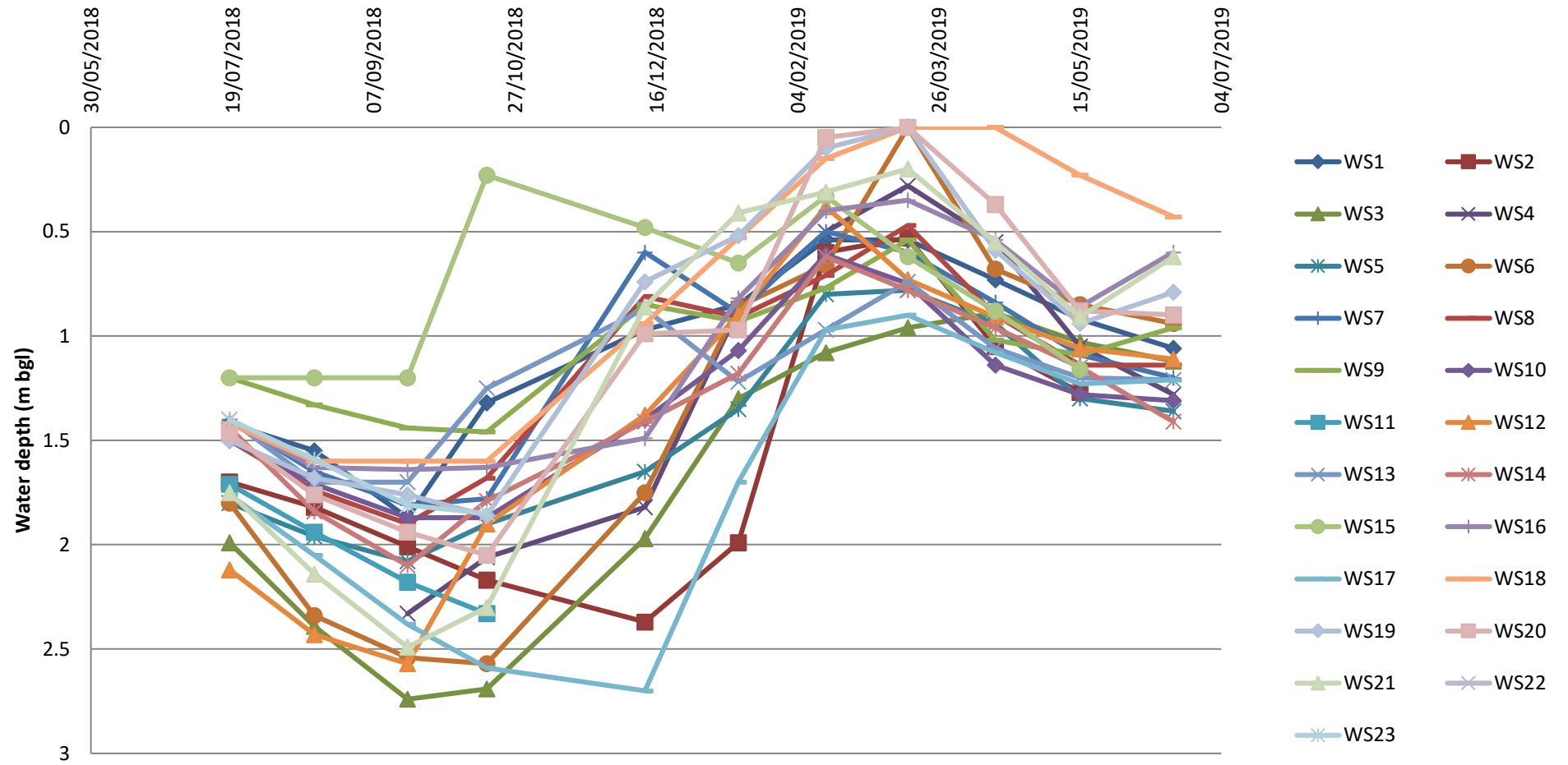
Monitoring well	Water level (mbgl)											Depth (m bgl)
	18/07/2018	17/08/2018	19/09/2018	17/10/2018	12/12/2018	14/01/2019	14/02/2019	15/03/2019	15/04/2019	15/05/2019	17/06/2019	
WS1	1.42	1.55	1.87	1.32	0.97	0.85	0.54	0.54	0.73	0.92	1.06	2.9
WS2	1.7	1.82	2.01	2.17	2.37	1.99	0.6	0.53	1.05	1.27		2.8
WS3	1.99	2.39	2.74	2.69	1.97	1.3	1.08	0.96	0.89	1.03	1.12	3
WS4			2.33	2.06	1.82	0.87	0.5	0.28	0.55	1.05	1.28	3.7
WS5	1.8	1.96	2.08	1.9	1.65	1.35	0.8	0.78	0.94	1.3	1.36	3.6
WS6	1.8	2.34	2.54	2.57	1.75	0.86	0.66	0	0.68	0.85	0.94	3.8
WS7	1.4	1.65	1.81	1.78	0.6	0.89	0.5	0.6	0.84	1.09	1.2	3.6
WS8	1.5	1.74	1.9	1.68	0.81	0.91	0.71	0.47	0.9	1.14	1.14	2.8
WS9	1.2	1.33	1.44	1.46	0.85	0.93	0.77	0.54	1.02	1.09	0.96	3.9
WS10	1.5	1.71	1.87	1.87	1.4	1.07	0.61	0.75	1.14	1.28	1.31	2.8
WS11	1.71	1.94	2.18	2.33								2.5
WS12	2.12	2.43	2.57	1.9	1.38	0.9	0.38	0.73	0.91	1.06	1.11	2.9
WS13	1.4	1.7	1.7	1.25	0.87	1.22	0.97	0.74	1.06	1.2	1.21	1.8
WS14	1.44	1.84	2.1	1.79	1.41	1.18	0.62	0.78	0.96	1.15	1.41	2.9
WS15	1.2	1.2	1.2	0.23	0.48	0.65	0.33	0.62	0.88	1.16		1.3
WS16	1.41	1.63	1.64	1.63	1.49	0.82	0.4	0.35	0.54	0.86	0.6	1.6
WS17	1.76	2.05	2.38	2.59	2.7	1.7	0.97	0.9	1.08	1.23	1.21	2.7
WS18	1.42	1.6	1.6	1.6	0.94	0.53	0.15	0	0	0.23	0.43	2.7
WS19	1.5	1.68	1.76	1.86	0.74	0.52	0.1	0	0.59	0.94	0.79	3.5
WS20	1.47	1.76	1.94	2.05	0.99	0.97	0.05	0	0.37	0.88	0.9	2.9
WS21	1.75	2.14	2.49	2.3	0.86	0.41	0.31	0.2	0.55	0.91	0.62	3.3
WS22												3.6
WS23	1.4	1.59	1.81	1.85								2.9

17/06/2019

WS2 - Destroyed/buried

WS15 - Dry (silted up to 1.15 m)

Water depth over time





INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE.
ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

- 1.5 Highest water depth recorded throughout the monitoring period in metres below ground level.
- 50.50 Highest water depth recorded throughout the monitoring period in metres above Ordnance Datum.
- GWM Standpipe location
- Groundwater level contour line
- Groundwater level contour line - extrapolated

A	First Issue.			
REV	DESCRIPTION	SIG	CHK	DATE

LEGAL AND GENERAL HOMES

HOGWOOD FARM, ARBORFIELD

GROUND WATER MONITORING
LOCATIONS WITH HIGHEST WATER
DEPTHS

Eastwood & Partners
CONSULTING ENGINEERS

EOP

St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Tel 0114 255 4554
Fax 0114 255 4330

mail@eastwoodandpartners.com
www.eastwoodandpartners.com

SCALE WHEN PLOTTED AT A3 1:5000			DRAWING STATUS INFORMATION	
DRAWN TC	CHECKED RAN	DATE 24.07.19	DRAWING NUMBER 41623/005	REV A



INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE.
ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

- 0.5 Lowest water depth recorded throughout the monitoring period in metres below ground level.
- 55.50 Lowest water depth recorded throughout the monitoring period in metres above Ordnance Datum.
- GWM Standpipe location
- Groundwater level contour line
- Groundwater level contour line - extrapolated

A	First Issue.			
REV	DESCRIPTION	SIG	CHK	DATE

LEGAL AND GENERAL HOMES

HOGWOOD FARM, ARBORFIELD

GROUND WATER MONITORING
LOCATIONS WITH LOWEST WATER
DEPTHS

Eastwood & Partners
CONSULTING ENGINEERS

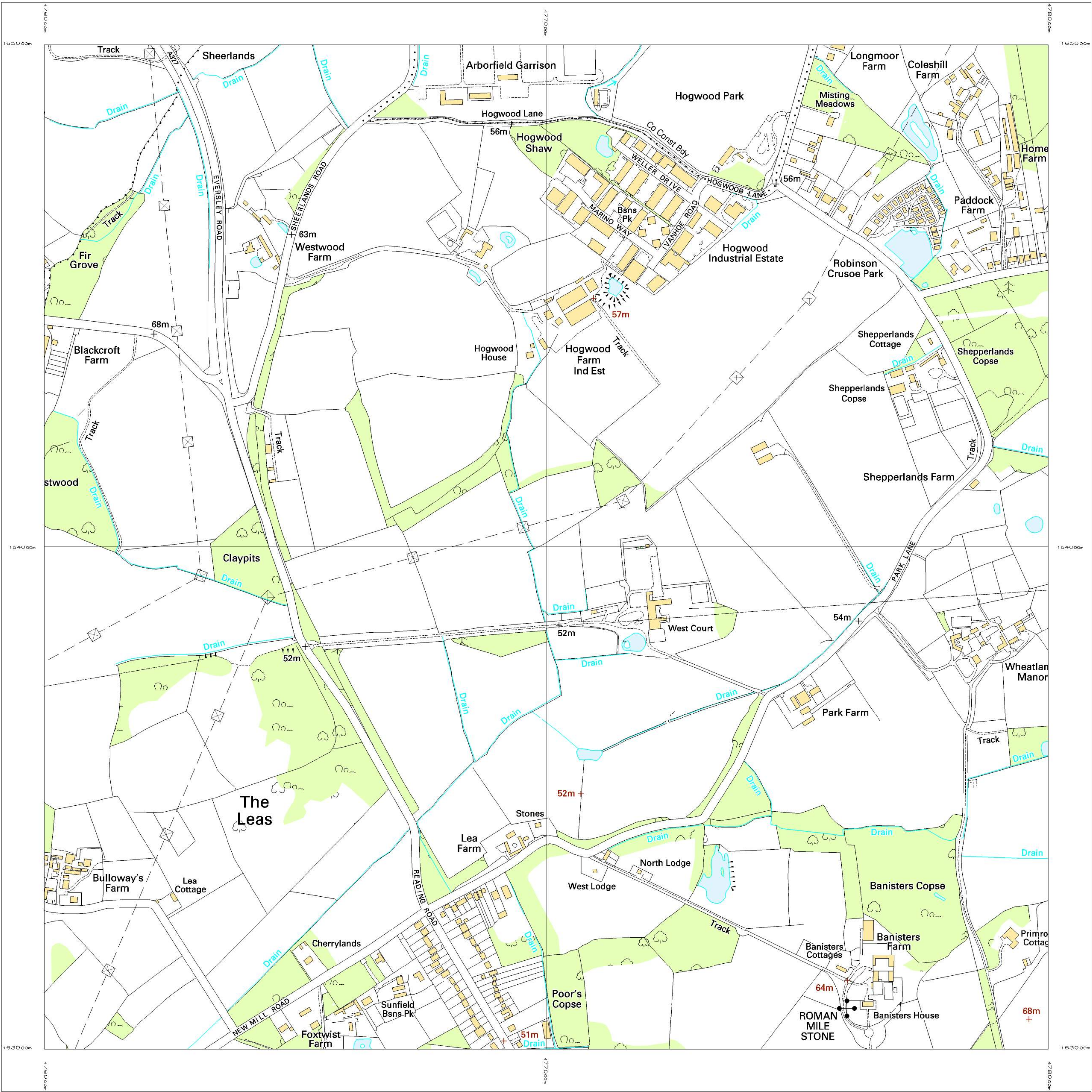
EOP

St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Tel 0114 255 4554
Fax 0114 255 4330

mail@eastwoodandpartners.com
www.eastwoodandpartners.com

SCALE WHEN PLOTTED AT A3 1:5000			DRAWING STATUS INFORMATION	
DRAWN TC	CHECKED RAN	DATE 24.07.19	DRAWING NUMBER 41623/006	REV A



Plotted 06 Nov 2009 from Ordnance Survey digitally derived data.

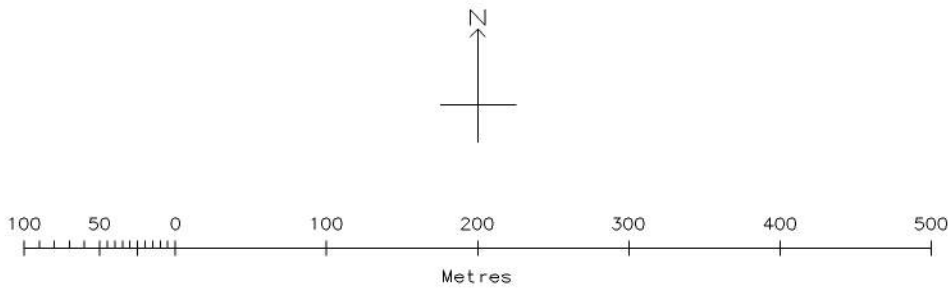
Produced using significant survey information from Ordnance Survey large scales digital data, and incorporated into OS Landplan Nov 2008.

© Crown copyright 2009.

Reproduction in whole or in part is prohibited without the prior written permission of Ordnance Survey.

Administrative boundaries revised to Oct 2008.

Additional boundaries information:



Scale 1:5000

This OS Landplan plot is enlarged from derived mapping produced at 1:10000 scale

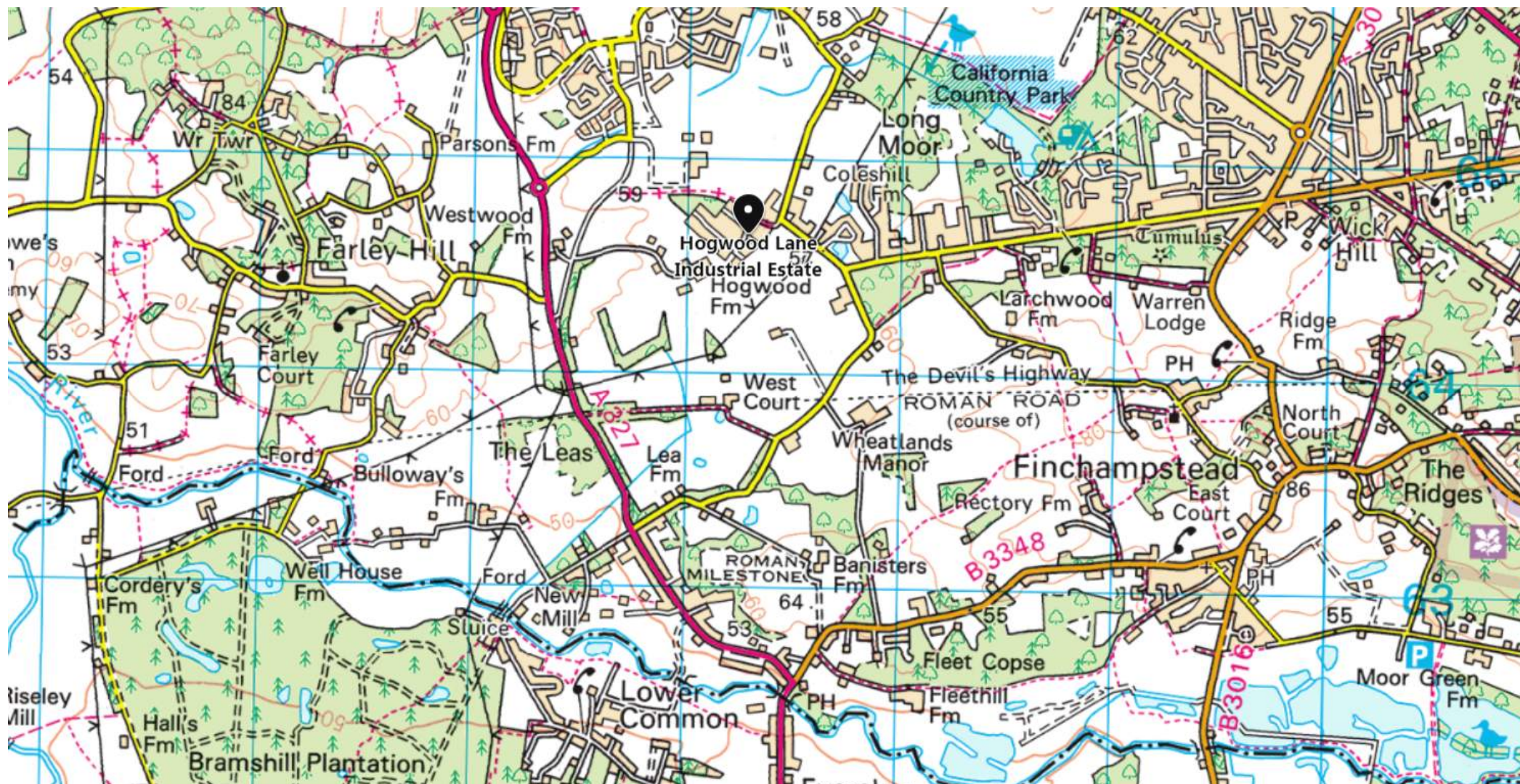
Heights are given in metres above Newlyn Datum. The representation of a road, track or path is no evidence of a right of way.

The alignment of tunnels is approximate.

An OS Landplan symbols leaflet is available on request from Ordnance Survey Mapping and Data Centres.

Ordnance Survey, the OS Symbol and OS Landplan are registered trade marks of Ordnance Survey, the national mapping agency of Great Britain.

Plot centre coordinates: 477000 164000
Supplied by: Thames Print Room
Plot serial number: 00145800



Appendix 4

Chemical Test Results

Table of Assessment Values

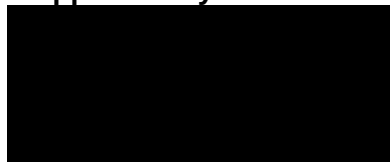


Final Report

Report No.: 21-33825-1
Initial Date of Issue: 07-Oct-2021
Client Eastwood & Partners
Client Address: St. Andrews House
23 Kingfield Road
Sheffield
South Yorkshire
S11 9AS
Contact(s): Ruth Noble
Project 41623 Finchampstead, Hogwood Farm

Quotation No.:		Date Received:	29-Sep-2021
Order No.:		Date Instructed:	29-Sep-2021
No. of Samples:	22		
Turnaround (Wkdays):	5	Results Due:	05-Oct-2021
Date Approved:	07-Oct-2021		

Approved By:



Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288578	1288579	1288580	1288581	1288582	1288583	1288584	1288585	1288586
	Sample Location:				TP101	TP101	TP103	TP103	TP105	T1P07	TP109	TP110	TP113
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	1.10	0.20	1.50	2.00	0.50	1.40	2.40	1.10
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Moisture	N	2030	%	0.020	5.4	10	7.7	27	16	32	15	12	34
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	None	None	None	None	None	None	None	None
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH	M	2010		4.0	7.8	8.1	8.2	7.7	7.9	7.8	8.1	8.3	8.3
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		0.28	0.042	0.099	< 0.010	0.031	< 0.010	0.018	< 0.010
Total Sulphur	M	2175	%	0.010		0.053	0.058	0.10	0.017	0.016	0.014	0.050	0.013
Sulphate (Acid Soluble)	M	2430	%	0.010		0.010	< 0.010	0.023	< 0.010	0.016	< 0.010	< 0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	4.3	5.4	6.3	17	7.0	16	7.4	5.9	8.9
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	15	16	21	55	18	19	18	20	28
Copper	M	2450	mg/kg	0.50	55	69	12	30	12	16	9.6	9.7	12
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.25	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	6.0	5.5	7.2	25	29	19	14	20	41
Lead	M	2450	mg/kg	0.50	22	5.5	8.3	22	6.1	8.7	5.3	6.6	8.4
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	0.41	< 0.20	0.38	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	140	51	29	46	23	39	22	28	34
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0		[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0		[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		[C] < 10		[C] < 10	[C] < 10	[C] < 10	[C] < 10	[C] < 10	[C] < 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	2.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:		21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:		1288578	1288579	1288580	1288581	1288582	1288583	1288584	1288585	1288586	
	Sample Location:		TP101	TP101	TP103	TP103	TP105	TP107	TP109	TP110	TP113	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):		0.20	1.10	0.20	1.50	2.00	0.50	1.40	2.40	1.10	
	Date Sampled:		24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	
Determinand	Accred.	SOP	Units	LOD								
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.29	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.30	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.27	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.98	0.18	0.16	< 0.10	0.23
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.81	0.17	0.14	< 0.10	0.14
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.39	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.41	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.20	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	8.3	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288587	1288588	1288589	1288590	1288591	1288592	1288593	1288594	1288595
	Sample Location:				TP114	TP116	TP117	TP117	TP118	TP119	TP119	TP120	TP120
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				2.10	0.70	0.20	0.70	0.30	0.20	1.30	0.30	1.20
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Moisture	N	2030	%	0.020	26	22	4.5	12	5.9	6.5	11	6.3	24
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	None	None	Stones and Roots	None	Stones and Roots	Stones and Roots	None	Stones and Roots	None
Soil Texture	N	2040		N/A	Clay	Clay	Sand	Clay	Sand	Sand	Clay	Sand	Clay
pH	M	2010		4.0	8.3	7.9	7.5	7.4	8.5	7.8	8.3	7.7	8.1
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010		0.10			0.35		< 0.010
Total Sulphur	M	2175	%	0.010	0.011	0.011		0.050			0.041		0.013
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010
Arsenic	M	2450	mg/kg	1.0	5.9	8.9	5.3	8.5	4.6	6.4	6.9	4.8	11
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	18	31	21	28	18	22	20	17	26
Copper	M	2450	mg/kg	0.50	8.3	9.8	6.7	7.8	5.4	7.9	7.9	5.3	11
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	25	13	6.5	10	5.3	5.9	17	6.5	27
Lead	M	2450	mg/kg	0.50	5.2	8.1	20	8.0	13	19	5.5	10	7.6
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	25	31	24	25	22	25	22	23	33
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[C] < 5.0	[C] < 5.0		[C] < 5.0			[C] < 5.0		[C] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[C] < 5.0	[C] < 5.0		[C] < 5.0			[C] < 5.0		[C] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[C] < 10	[C] < 10		[C] < 10			[C] < 10		[C] < 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288587	1288588	1288589	1288590	1288591	1288592	1288593	1288594	1288595
	Sample Location:				TP114	TP116	TP117	TP117	TP118	TP119	TP119	TP120	TP120
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				2.10	0.70	0.20	0.70	0.30	0.20	1.30	0.30	1.20
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	0.17	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	0.19	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288596	1288597	1288598	1288599
	Sample Location:				TP121	TP121	TP122	TP122
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.40	1.10	0.45	1.50
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD				
Moisture	N	2030	%	0.020	8.7	12	6.4	12
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	None	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Clay
pH	M	2010		4.0	7.7	8.4	8.0	8.6
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		1.0		1.2
Total Sulphur	M	2175	%	0.010		0.051		0.045
Sulphate (Acid Soluble)	M	2430	%	0.010		< 0.010		< 0.010
Arsenic	M	2450	mg/kg	1.0	6.4	12	5.8	17
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	20	33	20	40
Copper	M	2450	mg/kg	0.50	6.9	14	6.4	17
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	7.2	37	7.7	37
Lead	M	2450	mg/kg	0.50	15	10	12	13
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	26	38	27	48
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0		[C] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0		[C] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		[C] < 10		[C] < 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288596	1288597	1288598	1288599
	Sample Location:				TP121	TP121	TP122	TP122
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.40	1.10	0.45	1.50
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD				
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1288579			TP101	24-Sep-2021	C	Plastic Tub 500g
1288581			TP103	24-Sep-2021	C	Plastic Tub 500g
1288582			TP105	24-Sep-2021	C	Plastic Tub 500g
1288583			T1P07	24-Sep-2021	C	Plastic Tub 500g
1288584			TP109	24-Sep-2021	C	Plastic Tub 500g
1288585			TP110	24-Sep-2021	C	Plastic Tub 500g
1288586			TP113	24-Sep-2021	C	Plastic Tub 500g
1288587			TP114	24-Sep-2021	C	Plastic Tub 500g
1288588			TP116	24-Sep-2021	C	Plastic Tub 500g
1288590			TP117	24-Sep-2021	C	Plastic Tub 500g
1288593			TP119	24-Sep-2021	C	Plastic Tub 500g
1288595			TP120	24-Sep-2021	C	Plastic Tub 500g
1288597			TP121	24-Sep-2021	C	Plastic Tub 500g
1288599			TP122	24-Sep-2021	C	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

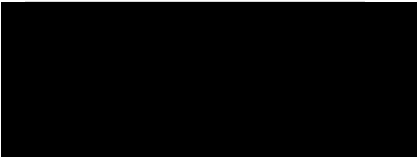
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.:	21-37242-1		
Initial Date of Issue:	02-Nov-2021		
Client	Eastwood & Partners		
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS		
Contact(s):	Elliot Dean Melanie Ebling		
Project	41623 Hogwood Farm, Finchampstead		
Quotation No.:		Date Received:	26-Oct-2021
Order No.:		Date Instructed:	26-Oct-2021
No. of Samples:	30		
Turnaround (Wkdays):	5	Results Due:	01-Nov-2021
Date Approved:	02-Nov-2021		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:				1306230	1306231	1306232	1306233	1306234	1306235	1306236	1306237	1306238
Order No.:	Client Sample Ref.:				MG	NG	MG	NG	MG	MG	MG	MG	TS
	Sample Location:				TP301	TP301	TP302	TP302	TP303	TP303	TP304	TP304	TP305
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	1.3	0.2	0.9	0.3	1.5	1.0	2.8	0.2
	Bottom Depth (m):				0.3	1.3	0.2	0.9	0.3	1.5	1.0	2.8	0.2
	Date Sampled:				18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:				DURHAM		DURHAM		DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-		-		-	-	-	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture	N	2030	%	0.020	3.0	14	6.7	13	12	14	11	12	13
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Sand	Clay	Clay	Clay	Clay	Sand
pH	M	2010		4.0	9.3	8.2	10.6	8.6	9.0	8.8	8.6	8.6	8.2
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.56	0.53	0.30	0.058	0.55	0.26	0.18	0.069	
Total Sulphur	M	2175	%	0.010	0.26	0.079	0.18	0.064	0.16	0.10	0.081	0.065	
Sulphate (Acid Soluble)	M	2430	%	0.010	0.20	0.071	0.17	0.020	0.30	0.081	0.076	0.029	
Arsenic	M	2450	mg/kg	1.0	9.4	5.8	12	5.0	11	7.7	8.6	9.5	6.0
Cadmium	M	2450	mg/kg	0.10	0.12	< 0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	32	16	18	15	20	17	21	32	17
Copper	M	2450	mg/kg	0.50	110	53	48	16	62	77	27	50	40
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	15	8.3	13	6.3	12	11	19	14	7.7
Lead	M	2450	mg/kg	0.50	33	14	43	18	26	21	18	19	19
Selenium	M	2450	mg/kg	0.20	< 0.20	0.34	< 0.20	< 0.20	< 0.20	0.25	0.28	0.30	0.27
Zinc	M	2450	mg/kg	0.50	59	29	87	29	49	35	36	35	29
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20									1.2
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	120		17		< 1.0	< 1.0	< 1.0	< 1.0	

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:				1306230	1306231	1306232	1306233	1306234	1306235	1306236	1306237	1306238
Order No.:	Client Sample Ref.:				MG	NG	MG	NG	MG	MG	MG	MG	TS
	Sample Location:				TP301	TP301	TP302	TP302	TP303	TP303	TP304	TP304	TP305
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	1.3	0.2	0.9	0.3	1.5	1.0	2.8	0.2
	Bottom Depth (m):				0.3	1.3	0.2	0.9	0.3	1.5	1.0	2.8	0.2
	Date Sampled:				18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:				DURHAM		DURHAM		DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	580		89		< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	700		110		< 5.0	< 5.0	< 5.0	< 5.0	
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	700		110		< 10	< 10	< 10	< 10	
Naphthalene	M	2800	mg/kg	0.10	0.40	< 0.10	0.39	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	0.62	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	1.4	< 0.10	0.77	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	1.2	< 0.10	0.77	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	13	0.35	9.5	< 0.10	0.50	15	7.8	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	4.4	0.10	2.6	< 0.10	0.18	2.6	1.9	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	31	0.90	24	0.39	1.5	13	9.9	0.40	0.16
Pyrene	M	2800	mg/kg	0.10	26	0.79	19	0.32	1.1	9.0	7.2	0.33	0.18
Benzo[a]anthracene	M	2800	mg/kg	0.10	15	0.49	13	0.18	0.88	4.1	4.1	0.28	< 0.10
Chrysene	M	2800	mg/kg	0.10	15	0.47	12	0.18	0.80	3.7	3.7	0.27	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	24	0.69	22	< 0.10	1.7	5.3	4.9	0.39	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	8.1	0.26	7.5	< 0.10	0.64	1.8	1.9	0.12	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	21	0.58	20	< 0.10	1.2	4.0	3.6	0.30	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	16	0.48	17	< 0.10	1.2	3.2	2.9	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	2.6	0.12	2.3	< 0.10	0.25	0.49	0.38	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	15	0.44	13	< 0.10	0.96	2.4	2.1	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	190	5.7	160	< 2.0	11	65	50	2.1	< 2.0
Demeton-O	N	2820	mg/kg	0.20									< 0.20
Phorate	N	2820	mg/kg	0.20									< 0.20
Demeton-S	N	2820	mg/kg	0.20									< 0.20
Disulfoton	N	2820	mg/kg	0.20									< 0.20
Fenthion	N	2820	mg/kg	0.20									< 0.20
Trichloronate	N	2820	mg/kg	0.20									< 0.20
Prothiofos	N	2820	mg/kg	0.20									< 0.20
Fensulphothion	N	2820	mg/kg	0.20									< 0.20
Sulprofos	N	2820	mg/kg	0.20									< 0.20
Azinphos-Methyl	N	2820	mg/kg	0.20									< 0.20
Coumaphos	N	2820	mg/kg	0.20									< 0.20
Alpha-HCH	N	2840	mg/kg	0.20									< 0.20
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20									< 0.20
Beta-HCH	N	2840	mg/kg	0.20									< 0.20
Delta-HCH	N	2840	mg/kg	0.20									< 0.20
Heptachlor	N	2840	mg/kg	0.20									< 0.20

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:		21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:		1306230	1306231	1306232	1306233	1306234	1306235	1306236	1306237	1306238
Order No.:	Client Sample Ref.:		MG	NG	MG	NG	MG	MG	MG	MG	TS
	Sample Location:		TP301	TP301	TP302	TP302	TP303	TP303	TP304	TP304	TP305
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.3	1.3	0.2	0.9	0.3	1.5	1.0	2.8	0.2
	Bottom Depth (m):		0.3	1.3	0.2	0.9	0.3	1.5	1.0	2.8	0.2
	Date Sampled:		18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:		DURHAM		DURHAM		DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	Accred.	SOP	Units	LOD							
Aldrin	N	2840	mg/kg	0.20							< 0.20
Heptachlor Epoxide	N	2840	mg/kg	0.20							< 0.20
Gamma-Chlordane	N	2840	mg/kg	0.20							< 0.20
Alpha-Chlordane	N	2840	mg/kg	0.20							< 0.20
Endosulfan I	N	2840	mg/kg	0.20							< 0.20
4,4-DDE	N	2840	mg/kg	0.20							< 0.20
Dieldrin	N	2840	mg/kg	0.20							< 0.20
Endrin	N	2840	mg/kg	0.20							< 0.20
4,4-DDD	N	2840	mg/kg	0.20							< 0.20
Endosulfan II	N	2840	mg/kg	0.20							< 0.20
Endrin Aldehyde	N	2840	mg/kg	0.20							< 0.20
4,4-DDT	N	2840	mg/kg	0.20							< 0.20
Endosulfan Sulphate	N	2840	mg/kg	0.20							< 0.20
Methoxychlor	N	2840	mg/kg	0.20							< 0.20
Endrin Ketone	N	2840	mg/kg	0.20							< 0.20

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:				1306239	1306240	1306241	1306242	1306243	1306244	1306245	1306246	1306247
Order No.:	Client Sample Ref.:				TS	NG	TS	TS	NG	TS	NG	TS	TS
	Sample Location:				TP306	TP306	TP308	TP309	TP309	TP311	TP311	TP321	TP322
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	1.5	0.2	0.2	1.2	0.25	1.5	0.3	0.3
	Bottom Depth (m):				0.3	1.5	0.2	0.2	1.2	0.25	1.5	0.3	0.3
	Date Sampled:				18-Oct-2021	18-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	20-Oct-2021	20-Oct-2021
	Asbestos Lab:					DURHAM					DURHAM		
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A		-					-		
Asbestos Identification	U	2192		N/A		No Asbestos Detected					No Asbestos Detected		
Moisture	N	2030	%	0.020	13	16	18	21	15	11	10	11	11
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Roots	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Loam	Clay	Sand	Clay	Clay	Sand
pH	M	2010		4.0	8.2	8.6	7.9	7.8	8.7	7.6	6.4	7.6	7.9
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		< 0.010			< 0.010		0.18		
Total Sulphur	M	2175	%	0.010		0.032			0.051		0.082		
Sulphate (Acid Soluble)	M	2430	%	0.010		< 0.010			< 0.010		0.070		
Arsenic	M	2450	mg/kg	1.0	7.8	14	8.7	8.3	16	8.1	9.1	4.4	2.8
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	19	34	26	23	32	17	26	9.3	4.4
Copper	M	2450	mg/kg	0.50	17	18	24	12	21	17	25	12	6.4
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	6.6	36	8.6	11	30	6.8	21	4.6	1.6
Lead	M	2450	mg/kg	0.50	18	11	23	17	12	15	12	15	8.0
Selenium	M	2450	mg/kg	0.20	0.21	0.28	0.22	0.23	0.58	0.21	0.25	0.22	< 0.20
Zinc	M	2450	mg/kg	0.50	27	47	37	34	45	24	44	19	16
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20			1.6						0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0					< 1.0		
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0					< 1.0		
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0					< 1.0		
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0					< 5.0		
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0					< 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0					< 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0					< 1.0		

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:				1306239	1306240	1306241	1306242	1306243	1306244	1306245	1306246	1306247
Order No.:	Client Sample Ref.:				TS	NG	TS	TS	NG	TS	NG	TS	TS
	Sample Location:				TP306	TP306	TP308	TP309	TP309	TP311	TP311	TP321	TP322
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	1.5	0.2	0.2	1.2	0.25	1.5	0.3	0.3
	Bottom Depth (m):				0.3	1.5	0.2	0.2	1.2	0.25	1.5	0.3	0.3
	Date Sampled:				18-Oct-2021	18-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	20-Oct-2021	20-Oct-2021
	Asbestos Lab:					DURHAM					DURHAM		
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0					< 1.0		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0					< 1.0		
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0					< 5.0		
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10					< 10		
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.36	0.23	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.11	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	0.13	< 0.10	0.41	0.18	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	0.12	< 0.10	0.31	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.23	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.19	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.22	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	2.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20			< 0.20						< 0.20
Phorate	N	2820	mg/kg	0.20			< 0.20						< 0.20
Demeton-S	N	2820	mg/kg	0.20			< 0.20						< 0.20
Disulfoton	N	2820	mg/kg	0.20			< 0.20						< 0.20
Fenthion	N	2820	mg/kg	0.20			< 0.20						< 0.20
Trichloronate	N	2820	mg/kg	0.20			< 0.20						< 0.20
Prothiofos	N	2820	mg/kg	0.20			< 0.20						< 0.20
Fensulphothion	N	2820	mg/kg	0.20			< 0.20						< 0.20
Sulprofos	N	2820	mg/kg	0.20			< 0.20						< 0.20
Azinphos-Methyl	N	2820	mg/kg	0.20			< 0.20						< 0.20
Coumaphos	N	2820	mg/kg	0.20			< 0.20						< 0.20
Alpha-HCH	N	2840	mg/kg	0.20			< 0.20						< 0.20
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20			< 0.20						< 0.20
Beta-HCH	N	2840	mg/kg	0.20			< 0.20						< 0.20
Delta-HCH	N	2840	mg/kg	0.20			< 0.20						< 0.20
Heptachlor	N	2840	mg/kg	0.20			< 0.20						< 0.20

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:		21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:		1306239	1306240	1306241	1306242	1306243	1306244	1306245	1306246	1306247
Order No.:	Client Sample Ref.:		TS	NG	TS	TS	NG	TS	NG	TS	TS
	Sample Location:		TP306	TP306	TP308	TP309	TP309	TP311	TP311	TP321	TP322
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.3	1.5	0.2	0.2	1.2	0.25	1.5	0.3	0.3
	Bottom Depth (m):		0.3	1.5	0.2	0.2	1.2	0.25	1.5	0.3	0.3
	Date Sampled:		18-Oct-2021	18-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	19-Oct-2021	20-Oct-2021	20-Oct-2021
	Asbestos Lab:			DURHAM					DURHAM		
Determinand	Accred.	SOP	Units	LOD							
Aldrin	N	2840	mg/kg	0.20			< 0.20				< 0.20
Heptachlor Epoxide	N	2840	mg/kg	0.20			< 0.20				< 0.20
Gamma-Chlordane	N	2840	mg/kg	0.20			< 0.20				< 0.20
Alpha-Chlordane	N	2840	mg/kg	0.20			< 0.20				< 0.20
Endosulfan I	N	2840	mg/kg	0.20			< 0.20				< 0.20
4,4-DDE	N	2840	mg/kg	0.20			< 0.20				< 0.20
Dieldrin	N	2840	mg/kg	0.20			< 0.20				< 0.20
Endrin	N	2840	mg/kg	0.20			< 0.20				< 0.20
4,4-DDD	N	2840	mg/kg	0.20			< 0.20				< 0.20
Endosulfan II	N	2840	mg/kg	0.20			< 0.20				< 0.20
Endrin Aldehyde	N	2840	mg/kg	0.20			< 0.20				< 0.20
4,4-DDT	N	2840	mg/kg	0.20			< 0.20				< 0.20
Endosulfan Sulphate	N	2840	mg/kg	0.20			< 0.20				< 0.20
Methoxychlor	N	2840	mg/kg	0.20			< 0.20				< 0.20
Endrin Ketone	N	2840	mg/kg	0.20			< 0.20				< 0.20

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:				1306248	1306249	1306250	1306251	1306252	1306253	1306254	1306255	1306256
Order No.:	Client Sample Ref.:				NG	TS	TS	MG	NG	MG	MG	MG	MG
	Sample Location:				TP322	TP324	TP325	WS301	WS301	WS302	WS303	WS303	WS304
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.2	0.4	0.3	0.2	0.9	0.1	0.1	0.8	0.3
	Bottom Depth (m):				1.2	0.4	0.3	0.3	1.0	0.3	0.2	0.9	0.4
	Date Sampled:				20-Oct-2021	20-Oct-2021	20-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:				DURHAM			DURHAM		DURHAM	DURHAM		DURHAM
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-			-		-	-		-
Asbestos Identification	U	2192		N/A	No Asbestos Detected			No Asbestos Detected		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected
Moisture	N	2030	%	0.020	11	11	19	8.8	19	20	20	12	9.2
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Loam	Clay	Sand	Clay	Clay	Loam	Clay	Sand
pH	M	2010		4.0	6.7	7.6	7.5	8.9	7.8	7.7	8.2	8.6	9.6
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010			0.34	< 0.010	0.087	0.078	< 0.010	1.7
Total Sulphur	M	2175	%	0.010	0.055			0.12	0.035	0.079	0.067	0.035	0.48
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010			0.17	0.036	0.022	0.090	< 0.010	1.3
Arsenic	M	2450	mg/kg	1.0	6.5	3.9	7.0	21	27	27	28	10	35
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.3	0.10	0.10	0.10	< 0.10	0.52
Chromium	M	2450	mg/kg	1.0	9.0	7.9	15	40	35	36	36	24	49
Copper	M	2450	mg/kg	0.50	6.0	8.1	11	45	35	35	37	18	240
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.52	< 0.10	< 0.10	< 0.10	< 0.10	0.12
Nickel	M	2450	mg/kg	0.50	4.0	3.5	6.3	25	13	13	13	14	33
Lead	M	2450	mg/kg	0.50	4.4	14	23	380	24	24	25	8.9	91
Selenium	M	2450	mg/kg	0.20	< 0.20	0.20	0.24	< 0.20	< 0.20	< 0.20	< 0.20	0.23	< 0.20
Zinc	M	2450	mg/kg	0.50	17	20	31	470	67	70	72	31	180
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20									
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0			66				< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0			66				< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0			< 1.0				< 1.0	< 1.0

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:					21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:					1306248	1306249	1306250	1306251	1306252	1306253	1306254	1306255
Order No.:	Client Sample Ref.:					NG	TS	TS	MG	NG	MG	MG	MG
	Sample Location:					TP322	TP324	TP325	WS301	WS301	WS302	WS303	WS304
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					1.2	0.4	0.3	0.2	0.9	0.1	0.1	0.8
	Bottom Depth (m):					1.2	0.4	0.3	0.3	1.0	0.3	0.2	0.9
	Date Sampled:					20-Oct-2021	20-Oct-2021	20-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:					DURHAM			DURHAM		DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD									
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0				880				< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0				< 1.0				< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0				880				< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10				950				< 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.45
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.32
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.41	< 0.10	0.38	0.82	< 0.10	2.2
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.16	< 0.10	0.16	0.29	< 0.10	0.75
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.3	< 0.10	0.85	1.3	0.14	3.3
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.2	< 0.10	0.68	1.2	0.13	2.5
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.78	< 0.10	0.53	0.71	0.13	1.3
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.80	< 0.10	0.49	0.77	0.12	1.2
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.4	< 0.10	0.90	1.2	< 0.10	1.8
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.58	< 0.10	0.34	0.61	< 0.10	0.54
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10	0.87	0.88	< 0.10	1.7
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.97	< 0.10	0.74	0.94	< 0.10	1.3
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.19	< 0.10	0.22	0.49	< 0.10	0.27
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.79	< 0.10	0.72	0.65	< 0.10	0.89
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	9.7	< 2.0	6.9	9.9	< 2.0	19
Demeton-O	N	2820	mg/kg	0.20									
Phorate	N	2820	mg/kg	0.20									
Demeton-S	N	2820	mg/kg	0.20									
Disulfoton	N	2820	mg/kg	0.20									
Fenthion	N	2820	mg/kg	0.20									
Trichloronate	N	2820	mg/kg	0.20									
Prothiofos	N	2820	mg/kg	0.20									
Fensulphothion	N	2820	mg/kg	0.20									
Sulprofos	N	2820	mg/kg	0.20									
Azinphos-Methyl	N	2820	mg/kg	0.20									
Coumaphos	N	2820	mg/kg	0.20									
Alpha-HCH	N	2840	mg/kg	0.20									
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20									
Beta-HCH	N	2840	mg/kg	0.20									
Delta-HCH	N	2840	mg/kg	0.20									
Heptachlor	N	2840	mg/kg	0.20									

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:		21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:		1306248	1306249	1306250	1306251	1306252	1306253	1306254	1306255	1306256
Order No.:	Client Sample Ref.:		NG	TS	TS	MG	NG	MG	MG	MG	MG
	Sample Location:		TP322	TP324	TP325	WS301	WS301	WS302	WS303	WS303	WS304
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		1.2	0.4	0.3	0.2	0.9	0.1	0.1	0.8	0.3
	Bottom Depth (m):		1.2	0.4	0.3	0.3	1.0	0.3	0.2	0.9	0.4
	Date Sampled:		20-Oct-2021	20-Oct-2021	20-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:		DURHAM			DURHAM		DURHAM	DURHAM		DURHAM
Determinand	Accred.	SOP	Units	LOD							
Aldrin	N	2840	mg/kg	0.20							
Heptachlor Epoxide	N	2840	mg/kg	0.20							
Gamma-Chlordane	N	2840	mg/kg	0.20							
Alpha-Chlordane	N	2840	mg/kg	0.20							
Endosulfan I	N	2840	mg/kg	0.20							
4,4-DDE	N	2840	mg/kg	0.20							
Dieldrin	N	2840	mg/kg	0.20							
Endrin	N	2840	mg/kg	0.20							
4,4-DDD	N	2840	mg/kg	0.20							
Endosulfan II	N	2840	mg/kg	0.20							
Endrin Aldehyde	N	2840	mg/kg	0.20							
4,4-DDT	N	2840	mg/kg	0.20							
Endosulfan Sulphate	N	2840	mg/kg	0.20							
Methoxychlor	N	2840	mg/kg	0.20							
Endrin Ketone	N	2840	mg/kg	0.20							

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:				1306257	1306258	1306259
Order No.:	Client Sample Ref.:				TS	TS	NG
	Sample Location:				WS305	WS306	WS306
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.0	1.0
	Bottom Depth (m):				0.3	0.15	1.1
	Date Sampled:				18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:						
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A			
Asbestos Identification	U	2192		N/A			
Moisture	N	2030	%	0.020	36	19	16
Soil Colour	N	2040		N/A	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Roots	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Clay
pH	M	2010		4.0	8.2	7.7	8.1
Sulphate (2:1 Water Soluble) as SO ₄	M	2120	g/l	0.010			< 0.010
Total Sulphur	M	2175	%	0.010			0.035
Sulphate (Acid Soluble)	M	2430	%	0.010			< 0.010
Arsenic	M	2450	mg/kg	1.0	16	13	7.7
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	45	33	16
Copper	M	2450	mg/kg	0.50	30	18	12
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	36	37	7.6
Lead	M	2450	mg/kg	0.50	16	10	24
Selenium	M	2450	mg/kg	0.20	0.30	< 0.20	0.24
Zinc	M	2450	mg/kg	0.50	64	45	35
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20			
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0			< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			< 1.0

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:				1306257	1306258	1306259
Order No.:	Client Sample Ref.:				TS	TS	NG
	Sample Location:				WS305	WS306	WS306
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.0	1.0
	Bottom Depth (m):				0.3	0.15	1.1
	Date Sampled:				18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:						
Determinand	Accred.	SOP	Units	LOD			
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			< 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.17	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	0.16	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20			
Phorate	N	2820	mg/kg	0.20			
Demeton-S	N	2820	mg/kg	0.20			
Disulfoton	N	2820	mg/kg	0.20			
Fenthion	N	2820	mg/kg	0.20			
Trichloronate	N	2820	mg/kg	0.20			
Prothiofos	N	2820	mg/kg	0.20			
Fensulphothion	N	2820	mg/kg	0.20			
Sulprofos	N	2820	mg/kg	0.20			
Azinphos-Methyl	N	2820	mg/kg	0.20			
Coumaphos	N	2820	mg/kg	0.20			
Alpha-HCH	N	2840	mg/kg	0.20			
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20			
Beta-HCH	N	2840	mg/kg	0.20			
Delta-HCH	N	2840	mg/kg	0.20			
Heptachlor	N	2840	mg/kg	0.20			

Results - Soil

Project: 41623 Hogwood Farm, Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-37242	21-37242	21-37242
Quotation No.:	Chemtest Sample ID.:				1306257	1306258	1306259
Order No.:	Client Sample Ref.:				TS	TS	NG
	Sample Location:				WS305	WS306	WS306
	Sample Type:				SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.0	1.0
	Bottom Depth (m):				0.3	0.15	1.1
	Date Sampled:				18-Oct-2021	18-Oct-2021	18-Oct-2021
	Asbestos Lab:						
Determinand	Accred.	SOP	Units	LOD			
Aldrin	N	2840	mg/kg	0.20			
Heptachlor Epoxide	N	2840	mg/kg	0.20			
Gamma-Chlordane	N	2840	mg/kg	0.20			
Alpha-Chlordane	N	2840	mg/kg	0.20			
Endosulfan I	N	2840	mg/kg	0.20			
4,4-DDE	N	2840	mg/kg	0.20			
Dieldrin	N	2840	mg/kg	0.20			
Endrin	N	2840	mg/kg	0.20			
4,4-DDD	N	2840	mg/kg	0.20			
Endosulfan II	N	2840	mg/kg	0.20			
Endrin Aldehyde	N	2840	mg/kg	0.20			
4,4-DDT	N	2840	mg/kg	0.20			
Endosulfan Sulphate	N	2840	mg/kg	0.20			
Methoxychlor	N	2840	mg/kg	0.20			
Endrin Ketone	N	2840	mg/kg	0.20			

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenzo[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2820	Organophosphorus (O-P) Pesticides in Soils by GC-MS	Organophosphorus pesticide representative suite including Parathion, Malathion etc, plus client specific determinands	Dichloromethane extraction / GC-MS
2840	Organochlorine (O-Cl) Pesticides in Soils by GC-MS	Organochlorine pesticide representative suite including DDT and its metabolites, 'drins' and HCH etc, plus client specific determinands	Dichloromethane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.:	21-05274-1		
Initial Date of Issue:	26-Feb-2021		
Client	Eastwood & Partners		
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS		
Contact(s):	Gary Clarke		
Project	41623 Finchampstead		
Quotation No.:		Date Received:	22-Feb-2021
Order No.:	CAT/RAN/GC/41623	Date Instructed:	22-Feb-2021
No. of Samples:	33		
Turnaround (Wkdays):	5	Results Due:	26-Feb-2021
Date Approved:	26-Feb-2021		
Approved By:			

Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 41623 Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274
Quotation No.:	Chemtest Sample ID.:				1145636	1145637	1145638	1145639	1145640	1145641	1145642	1145643	1145644
	Client Sample ID.:				TS	TS	TS	TS	TS	TS	TS	TS	TS
	Sample Location:				TP02	TP03	TP04	TP06	TP07	TP08	TP10	TP13	TP15
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1
	Date Sampled:				15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021
	Asbestos Lab:												
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A									
Asbestos Identification	U	2192		N/A									
ACM Detection Stage	U	2192		N/A									
Moisture	N	2030	%	0.020	13	15	21	17	8.3	18	13	17	13
Soil Colour	N	2040		N/A	Brown		Brown	Brown	Brown	Brown	Brown	Brown	
Other Material	N	2040		N/A	Stones		Stones	Stones	Stones	Stones	Stones	Stones	
Soil Texture	N	2040		N/A	Sand		Clay	Sand	Sand	Sand	Sand	Sand	
pH	M	2010		4.0	8.0		7.8	7.4	8.0	7.7	7.9	7.9	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010									
Total Sulphur	M	2175	%	0.010									
Sulphate (Acid Soluble)	M	2430	%	0.010									
Arsenic	M	2450	mg/kg	1.0	< 1.0		< 1.0	6.0	7.0	6.0	5.9	4.6	
Cadmium	M	2450	mg/kg	0.10	0.13		0.12	0.13	0.15	0.13	0.13	0.11	
Chromium	M	2450	mg/kg	1.0	13		17	16	18	14	15	13	
Copper	M	2450	mg/kg	0.50	8.8		13	< 0.50	1.1	6.1	< 0.50	1.1	
Mercury	M	2450	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Nickel	M	2450	mg/kg	0.50	6.3		6.6	6.2	7.8	6.9	6.5	5.5	
Lead	M	2450	mg/kg	0.50	17		20	15	20	17	16	13	
Selenium	M	2450	mg/kg	0.20	< 0.20		< 0.20	0.20	0.25	< 0.20	0.21	< 0.20	
Zinc	M	2450	mg/kg	0.50	32		32	25	33	26	28	23	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Naphthalene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene	M	2800	mg/kg	0.10	0.19		< 0.10	< 0.10	0.14	< 0.10	< 0.10	0.13	
Pyrene	M	2800	mg/kg	0.10	0.15		< 0.10	< 0.10	0.13	< 0.10	< 0.10	0.11	
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.11		< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	
Chrysene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	

Results - Soil

Project: 41623 Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274
Quotation No.:	Chemtest Sample ID.:				1145636	1145637	1145638	1145639	1145640	1145641	1145642	1145643	1145644
	Client Sample ID.:				TS	TS	TS	TS	TS	TS	TS	TS	TS
	Sample Location:				TP02	TP03	TP04	TP06	TP07	TP08	TP10	TP13	TP15
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1
	Date Sampled:				15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021
	Asbestos Lab:												
Determinand	Accred.	SOP	Units	LOD									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Atraton	N	2830	mg/kg	0.20		< 0.20							< 0.20
Prometon	N	2830	mg/kg	0.20		< 0.20							< 0.20
Simazine	N	2830	mg/kg	0.20		< 0.20							< 0.20
Atrazine	N	2830	mg/kg	0.20		< 0.20							< 0.20
Propazine	N	2830	mg/kg	0.20		< 0.20							< 0.20
Terbuthylazine	N	2830	mg/kg	0.20		< 0.20							< 0.20
Secbumeton	N	2830	mg/kg	0.20		< 0.20							< 0.20
Simetryn	N	2830	mg/kg	0.20		< 0.20							< 0.20
Ametryn	N	2830	mg/kg	0.20		< 0.20							< 0.20
Prometryn	N	2830	mg/kg	0.20		< 0.20							< 0.20
Terbutryn	N	2830	mg/kg	0.20		< 0.20							< 0.20
Alpha-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20		< 0.20							< 0.20
Beta-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Delta-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Heptachlor	N	2840	mg/kg	0.20		< 0.20							< 0.20
Aldrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
Heptachlor Epoxide	N	2840	mg/kg	0.20		< 0.20							< 0.20
Gamma-Chlordane	N	2840	mg/kg	0.20		< 0.20							< 0.20
Alpha-Chlordane	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan I	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDE	N	2840	mg/kg	0.20		< 0.20							< 0.20
Dieldrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDD	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan II	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin Aldehyde	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDT	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan Sulphate	N	2840	mg/kg	0.20		< 0.20							< 0.20
Methoxychlor	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin Ketone	N	2840	mg/kg	0.20		< 0.20							< 0.20

Results - Soil

Project: 41623 Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274
Quotation No.:	Chemtest Sample ID.:				1145645	1145646	1145647	1145648	1145649	1145650	1145651	1145652	1145653
	Client Sample ID.:				TS	TS	TS	TS	TS	TS	TS	TS	TS
	Sample Location:				TP16	TP17	TP19	TP21	TP23	TP24	TP27	TP29	TP32
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
	Date Sampled:				15-Feb-2021	15-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021
	Asbestos Lab:												
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A									
Asbestos Identification	U	2192		N/A									
ACM Detection Stage	U	2192		N/A									
Moisture	N	2030	%	0.020	13	9.4	12	14	15	14	11	11	16
Soil Colour	N	2040		N/A	Brown	Brown	Brown		Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones		Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand		Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.0	7.9	8.3		8.0	8.0	8.0	8.3	7.7
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010									
Total Sulphur	M	2175	%	0.010									
Sulphate (Acid Soluble)	M	2430	%	0.010									
Arsenic	M	2450	mg/kg	1.0	6.1	5.6	4.8		5.3	5.1	5.6	4.8	6.6
Cadmium	M	2450	mg/kg	0.10	0.13	0.12	< 0.10		0.10	0.10	0.11	0.10	0.12
Chromium	M	2450	mg/kg	1.0	16	15	6.1		13	13	14	13	16
Copper	M	2450	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	0.90
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	7.4	7.1	4.4		5.5	6.3	6.4	6.2	7.1
Lead	M	2450	mg/kg	0.50	15	14	5.2		14	11	12	12	13
Selenium	M	2450	mg/kg	0.20	0.27	0.21	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	29	27	12		22	22	23	23	28
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274
Quotation No.:	Chemtest Sample ID.:				1145645	1145646	1145647	1145648	1145649	1145650	1145651	1145652	1145653
	Client Sample ID.:				TS	TS	TS	TS	TS	TS	TS	TS	TS
	Sample Location:				TP16	TP17	TP19	TP21	TP23	TP24	TP27	TP29	TP32
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
	Date Sampled:				15-Feb-2021	15-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021
	Asbestos Lab:												
Determinand	Accred.	SOP	Units	LOD									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Atraton	N	2830	mg/kg	0.20				< 0.20					
Prometon	N	2830	mg/kg	0.20				< 0.20					
Simazine	N	2830	mg/kg	0.20				< 0.20					
Atrazine	N	2830	mg/kg	0.20				< 0.20					
Propazine	N	2830	mg/kg	0.20				< 0.20					
Terbuthylazine	N	2830	mg/kg	0.20				< 0.20					
Secbumeton	N	2830	mg/kg	0.20				< 0.20					
Simetryn	N	2830	mg/kg	0.20				< 0.20					
Ametryn	N	2830	mg/kg	0.20				< 0.20					
Prometryn	N	2830	mg/kg	0.20				< 0.20					
Terbutryn	N	2830	mg/kg	0.20				< 0.20					
Alpha-HCH	N	2840	mg/kg	0.20				< 0.20					
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20				< 0.20					
Beta-HCH	N	2840	mg/kg	0.20				< 0.20					
Delta-HCH	N	2840	mg/kg	0.20				< 0.20					
Heptachlor	N	2840	mg/kg	0.20				< 0.20					
Aldrin	N	2840	mg/kg	0.20				< 0.20					
Heptachlor Epoxide	N	2840	mg/kg	0.20				< 0.20					
Gamma-Chlordane	N	2840	mg/kg	0.20				< 0.20					
Alpha-Chlordane	N	2840	mg/kg	0.20				< 0.20					
Endosulfan I	N	2840	mg/kg	0.20				< 0.20					
4,4-DDE	N	2840	mg/kg	0.20				< 0.20					
Dieldrin	N	2840	mg/kg	0.20				< 0.20					
Endrin	N	2840	mg/kg	0.20				< 0.20					
4,4-DDD	N	2840	mg/kg	0.20				< 0.20					
Endosulfan II	N	2840	mg/kg	0.20				< 0.20					
Endrin Aldehyde	N	2840	mg/kg	0.20				< 0.20					
4,4-DDT	N	2840	mg/kg	0.20				< 0.20					
Endosulfan Sulphate	N	2840	mg/kg	0.20				< 0.20					
Methoxychlor	N	2840	mg/kg	0.20				< 0.20					
Endrin Ketone	N	2840	mg/kg	0.20				< 0.20					

Results - Soil

Project: 41623 Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274
Quotation No.:	Chemtest Sample ID.:				1145654	1145655	1145656	1145657	1145658	1145659	1145660	1145661	1145662
	Client Sample ID.:				TS	TS	TS	TS	TS	TS	TS	TS	TS
	Sample Location:				TP33	TP35	TP36	TP38	TP37	TP02	TP04	TP07	TP12
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.2	0.2	0.4	0.2	0.5	1.6	1.0	0.9
	Date Sampled:				16-Feb-2021	16-Feb-2021	17-Feb-2021	17-Feb-2021	17-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021
	Asbestos Lab:								COVENTRY				
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A					-				
Asbestos Identification	U	2192		N/A					No Asbestos Detected				
ACM Detection Stage	U	2192		N/A					-				
Moisture	N	2030	%	0.020	17	16	15	16	11	14	16	18	20
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Clay
pH	M	2010		4.0	7.6	8.0	7.7	8.1	8.0	8.1	8.2	7.9	8.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010					0.38	0.040	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010					0.064	0.012	< 0.010	< 0.010	< 0.010
Sulphate (Acid Soluble)	M	2430	%	0.010					0.14	0.018	< 0.010	< 0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	8.0	5.1	8.0	4.9	7.2	8.6	13	9.9	8.5
Cadmium	M	2450	mg/kg	0.10	0.14	0.10	0.17	0.11	0.14	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	20	15	21	15	17	20	24	26	24
Copper	M	2450	mg/kg	0.50	11	< 0.50	5.6	1.3	1.6	< 0.50	1.7	0.85	< 0.50
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	9.5	6.7	9.4	8.1	9.0	8.9	34	11	9.7
Lead	M	2450	mg/kg	0.50	20	11	21	14	18	8.1	6.0	6.3	6.3
Selenium	M	2450	mg/kg	0.20	0.22	0.22	0.23	< 0.20	< 0.20	0.26	0.43	0.42	0.24
Zinc	M	2450	mg/kg	0.50	41	28	41	32	39	28	42	27	25
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.10	0.51	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.45	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.10	0.23	0.97	0.23	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.18	0.84	0.22	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.11	0.78	0.13	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.12	0.88	0.15	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.89	0.22	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.79	0.11	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.77	0.17	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.82	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.64	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.74	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274	21-05274
Quotation No.:	Chemtest Sample ID.:				1145654	1145655	1145656	1145657	1145658	1145659	1145660	1145661	1145662
	Client Sample ID.:				TS	TS	TS	TS	TS	TS	TS	TS	TS
	Sample Location:				TP33	TP35	TP36	TP38	TP37	TP02	TP04	TP07	TP12
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.3	0.2	0.2	0.4	0.2	0.5	1.6	1.0	0.9
	Date Sampled:				16-Feb-2021	16-Feb-2021	17-Feb-2021	17-Feb-2021	17-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021	15-Feb-2021
	Asbestos Lab:								COVENTRY				
Determinand	Accred.	SOP	Units	LOD									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	9.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Atraton	N	2830	mg/kg	0.20									
Prometon	N	2830	mg/kg	0.20									
Simazine	N	2830	mg/kg	0.20									
Atrazine	N	2830	mg/kg	0.20									
Propazine	N	2830	mg/kg	0.20									
Terbuthylazine	N	2830	mg/kg	0.20									
Secbumeton	N	2830	mg/kg	0.20									
Simetryn	N	2830	mg/kg	0.20									
Ametryn	N	2830	mg/kg	0.20									
Prometryn	N	2830	mg/kg	0.20									
Terbutryn	N	2830	mg/kg	0.20									
Alpha-HCH	N	2840	mg/kg	0.20									
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20									
Beta-HCH	N	2840	mg/kg	0.20									
Delta-HCH	N	2840	mg/kg	0.20									
Heptachlor	N	2840	mg/kg	0.20									
Aldrin	N	2840	mg/kg	0.20									
Heptachlor Epoxide	N	2840	mg/kg	0.20									
Gamma-Chlordane	N	2840	mg/kg	0.20									
Alpha-Chlordane	N	2840	mg/kg	0.20									
Endosulfan I	N	2840	mg/kg	0.20									
4,4-DDE	N	2840	mg/kg	0.20									
Dieldrin	N	2840	mg/kg	0.20									
Endrin	N	2840	mg/kg	0.20									
4,4-DDD	N	2840	mg/kg	0.20									
Endosulfan II	N	2840	mg/kg	0.20									
Endrin Aldehyde	N	2840	mg/kg	0.20									
4,4-DDT	N	2840	mg/kg	0.20									
Endosulfan Sulphate	N	2840	mg/kg	0.20									
Methoxychlor	N	2840	mg/kg	0.20									
Endrin Ketone	N	2840	mg/kg	0.20									

Results - Soil

Project: 41623 Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-05274	21-05274	21-05274	21-05274	21-05274	21-05274
Quotation No.:	Chemtest Sample ID.:				1145663	1145664	1145665	1145666	1145667	1145668
	Client Sample ID.:				TS	TS	TS	TS	TS	TS
	Sample Location:				TP15	TP17	TP23	TP27	TP32	TP35
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.7	1.0	0.7	0.5	1.0	1.0
	Date Sampled:				15-Feb-2021	15-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021
	Asbestos Lab:									
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192		N/A						
Asbestos Identification	U	2192		N/A						
ACM Detection Stage	U	2192		N/A						
Moisture	N	2030	%	0.020	18	17	18	17	19	20
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	None	None	None	Stones	None	None
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay
pH	M	2010		4.0	8.0	8.0	8.0	8.0	7.8	7.9
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010	< 0.010	< 0.010	< 0.010	0.012	< 0.010	< 0.010
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	8.0	7.3	10	9.2	12	9.7
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	24	26	31	22	32	28
Copper	M	2450	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.4	2.5
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	13	11	9.6	9.6	16	15
Lead	M	2450	mg/kg	0.50	7.6	7.2	5.7	7.0	8.9	7.5
Selenium	M	2450	mg/kg	0.20	0.30	0.22	0.23	0.28	0.23	0.22
Zinc	M	2450	mg/kg	0.50	32	27	28	26	38	34
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead

Client: Eastwood & Partners	Chemtest Job No.:				21-05274	21-05274	21-05274	21-05274	21-05274	21-05274
Quotation No.:	Chemtest Sample ID.:				1145663	1145664	1145665	1145666	1145667	1145668
	Client Sample ID.:				TS	TS	TS	TS	TS	TS
	Sample Location:				TP15	TP17	TP23	TP27	TP32	TP35
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.7	1.0	0.7	0.5	1.0	1.0
	Date Sampled:				15-Feb-2021	15-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021	16-Feb-2021
	Asbestos Lab:									
Determinand	Accred.	SOP	Units	LOD						
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Atraton	N	2830	mg/kg	0.20						
Prometon	N	2830	mg/kg	0.20						
Simazine	N	2830	mg/kg	0.20						
Atrazine	N	2830	mg/kg	0.20						
Propazine	N	2830	mg/kg	0.20						
Terbuthylazine	N	2830	mg/kg	0.20						
Secbumeton	N	2830	mg/kg	0.20						
Simetryn	N	2830	mg/kg	0.20						
Ametryn	N	2830	mg/kg	0.20						
Prometryn	N	2830	mg/kg	0.20						
Terbutryn	N	2830	mg/kg	0.20						
Alpha-HCH	N	2840	mg/kg	0.20						
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20						
Beta-HCH	N	2840	mg/kg	0.20						
Delta-HCH	N	2840	mg/kg	0.20						
Heptachlor	N	2840	mg/kg	0.20						
Aldrin	N	2840	mg/kg	0.20						
Heptachlor Epoxide	N	2840	mg/kg	0.20						
Gamma-Chlordane	N	2840	mg/kg	0.20						
Alpha-Chlordane	N	2840	mg/kg	0.20						
Endosulfan I	N	2840	mg/kg	0.20						
4,4-DDE	N	2840	mg/kg	0.20						
Dieldrin	N	2840	mg/kg	0.20						
Endrin	N	2840	mg/kg	0.20						
4,4-DDD	N	2840	mg/kg	0.20						
Endosulfan II	N	2840	mg/kg	0.20						
Endrin Aldehyde	N	2840	mg/kg	0.20						
4,4-DDT	N	2840	mg/kg	0.20						
Endosulfan Sulphate	N	2840	mg/kg	0.20						
Methoxychlor	N	2840	mg/kg	0.20						
Endrin Ketone	N	2840	mg/kg	0.20						

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2830	Organonitrogen (O-N) Pesticides in Soils by GC-MS	Organonitrogen pesticide representative suite including Triazines etc, plus client specific determinands	Dichloromethane extraction / GC-MS
2840	Organochlorine (O-Cl) Pesticides in Soils by GC-MS	Organochlorine pesticide representative suite including DDT and its metabolites, 'drins' and HCH etc, plus client specific determinands	Dichloromethane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

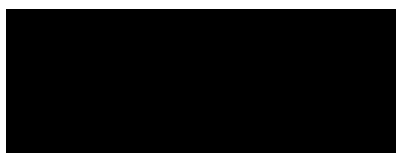
If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.:	21-33825-1		
Initial Date of Issue:	07-Oct-2021		
Client	Eastwood & Partners		
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS		
Contact(s):	Ruth Noble		
Project	41623 Finchampstead, Hogwood Farm		
Quotation No.:		Date Received:	29-Sep-2021
Order No.:		Date Instructed:	29-Sep-2021
No. of Samples:	22		
Turnaround (Wkdays):	5	Results Due:	05-Oct-2021
Date Approved:	07-Oct-2021		



Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288578	1288579	1288580	1288581	1288582	1288583	1288584	1288585	1288586
	Sample Location:				TP101	TP101	TP103	TP103	TP105	T1P07	TP109	TP110	TP113
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	1.10	0.20	1.50	2.00	0.50	1.40	2.40	1.10
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Moisture	N	2030	%	0.020	5.4	10	7.7	27	16	32	15	12	34
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	None	None	None	None	None	None	None	None
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH	M	2010		4.0	7.8	8.1	8.2	7.7	7.9	7.8	8.1	8.3	8.3
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		0.28	0.042	0.099	< 0.010	0.031	< 0.010	0.018	< 0.010
Total Sulphur	M	2175	%	0.010		0.053	0.058	0.10	0.017	0.016	0.014	0.050	0.013
Sulphate (Acid Soluble)	M	2430	%	0.010		0.010	< 0.010	0.023	< 0.010	0.016	< 0.010	< 0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	4.3	5.4	6.3	17	7.0	16	7.4	5.9	8.9
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	15	16	21	55	18	19	18	20	28
Copper	M	2450	mg/kg	0.50	55	69	12	30	12	16	9.6	9.7	12
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.25	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	6.0	5.5	7.2	25	29	19	14	20	41
Lead	M	2450	mg/kg	0.50	22	5.5	8.3	22	6.1	8.7	5.3	6.6	8.4
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	0.41	< 0.20	0.38	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	140	51	29	46	23	39	22	28	34
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0		[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0	[C] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0		[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0	[C] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		[C] < 10		[C] < 10	[C] < 10	[C] < 10	[C] < 10	[C] < 10	[C] < 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	2.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:		21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:		1288578	1288579	1288580	1288581	1288582	1288583	1288584	1288585	1288586	
	Sample Location:		TP101	TP101	TP103	TP103	TP105	T1P07	TP109	TP110	TP113	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):		0.20	1.10	0.20	1.50	2.00	0.50	1.40	2.40	1.10	
	Date Sampled:		24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	
Determinand	Accred.	SOP	Units	LOD								
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.29	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.30	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.27	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.98	0.18	0.16	< 0.10	0.23
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.81	0.17	0.14	< 0.10	0.14
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.39	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.41	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.35	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.20	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	8.3	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288587	1288588	1288589	1288590	1288591	1288592	1288593	1288594	1288595
	Sample Location:				TP114	TP116	TP117	TP117	TP118	TP119	TP119	TP120	TP120
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				2.10	0.70	0.20	0.70	0.30	0.20	1.30	0.30	1.20
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Moisture	N	2030	%	0.020	26	22	4.5	12	5.9	6.5	11	6.3	24
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	None	None	Stones and Roots	None	Stones and Roots	Stones and Roots	None	Stones and Roots	None
Soil Texture	N	2040		N/A	Clay	Clay	Sand	Clay	Sand	Sand	Clay	Sand	Clay
pH	M	2010		4.0	8.3	7.9	7.5	7.4	8.5	7.8	8.3	7.7	8.1
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010		0.10			0.35		< 0.010
Total Sulphur	M	2175	%	0.010	0.011	0.011		0.050			0.041		0.013
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010
Arsenic	M	2450	mg/kg	1.0	5.9	8.9	5.3	8.5	4.6	6.4	6.9	4.8	11
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	18	31	21	28	18	22	20	17	26
Copper	M	2450	mg/kg	0.50	8.3	9.8	6.7	7.8	5.4	7.9	7.9	5.3	11
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	25	13	6.5	10	5.3	5.9	17	6.5	27
Lead	M	2450	mg/kg	0.50	5.2	8.1	20	8.0	13	19	5.5	10	7.6
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	25	31	24	25	22	25	22	23	33
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	[C] < 5.0	[C] < 5.0		[C] < 5.0			[C] < 5.0		[C] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	[C] < 1.0	[C] < 1.0		[C] < 1.0			[C] < 1.0		[C] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	[C] < 5.0	[C] < 5.0		[C] < 5.0			[C] < 5.0		[C] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	[C] < 10	[C] < 10		[C] < 10			[C] < 10		[C] < 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288587	1288588	1288589	1288590	1288591	1288592	1288593	1288594	1288595
	Sample Location:				TP114	TP116	TP117	TP117	TP118	TP119	TP119	TP120	TP120
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				2.10	0.70	0.20	0.70	0.30	0.20	1.30	0.30	1.20
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.12	< 0.10	0.17	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13	< 0.10	0.19	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288596	1288597	1288598	1288599
	Sample Location:				TP121	TP121	TP122	TP122
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.40	1.10	0.45	1.50
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD				
Moisture	N	2030	%	0.020	8.7	12	6.4	12
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	None	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Sand	Clay
pH	M	2010		4.0	7.7	8.4	8.0	8.6
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		1.0		1.2
Total Sulphur	M	2175	%	0.010		0.051		0.045
Sulphate (Acid Soluble)	M	2430	%	0.010		< 0.010		< 0.010
Arsenic	M	2450	mg/kg	1.0	6.4	12	5.8	17
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	20	33	20	40
Copper	M	2450	mg/kg	0.50	6.9	14	6.4	17
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	7.2	37	7.7	37
Lead	M	2450	mg/kg	0.50	15	10	12	13
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	26	38	27	48
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0		[C] < 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		[C] < 1.0		[C] < 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		[C] < 5.0		[C] < 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		[C] < 10		[C] < 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-33825	21-33825	21-33825	21-33825
Quotation No.:	Chemtest Sample ID.:				1288596	1288597	1288598	1288599
	Sample Location:				TP121	TP121	TP122	TP122
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.40	1.10	0.45	1.50
	Date Sampled:				24-Sep-2021	24-Sep-2021	24-Sep-2021	24-Sep-2021
Determinand	Accred.	SOP	Units	LOD				
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1288579			TP101	24-Sep-2021	C	Plastic Tub 500g
1288581			TP103	24-Sep-2021	C	Plastic Tub 500g
1288582			TP105	24-Sep-2021	C	Plastic Tub 500g
1288583			T1P07	24-Sep-2021	C	Plastic Tub 500g
1288584			TP109	24-Sep-2021	C	Plastic Tub 500g
1288585			TP110	24-Sep-2021	C	Plastic Tub 500g
1288586			TP113	24-Sep-2021	C	Plastic Tub 500g
1288587			TP114	24-Sep-2021	C	Plastic Tub 500g
1288588			TP116	24-Sep-2021	C	Plastic Tub 500g
1288590			TP117	24-Sep-2021	C	Plastic Tub 500g
1288593			TP119	24-Sep-2021	C	Plastic Tub 500g
1288595			TP120	24-Sep-2021	C	Plastic Tub 500g
1288597			TP121	24-Sep-2021	C	Plastic Tub 500g
1288599			TP122	24-Sep-2021	C	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 21-34147-1
Initial Date of Issue: 07-Oct-2021
Client Eastwood & Partners

Client Address: St. Andrews House
23 Kingfield Road
Sheffield
South Yorkshire
S11 9AS

Contact(s): Ruth Noble
Mel Ebling

Project 41623 Finchampstead, Hogwood Farm

Quotation No.: **Date Received:** 01-Oct-2021

Order No.: **Date Instructed:** 01-Oct-2021

No. of Samples: 22

Turnaround (Wkdays): 5 **Results Due:** 07-Oct-2021

Date Approved: 07-Oct-2021

Approved By:



Details: Glynn Harvey, Technical Manager

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147
Quotation No.:	Chemtest Sample ID.:				1290106	1290107	1290108	1290109	1290110	1290111	1290112	1290113	1290114
	Sample Location:				TP101	TP101	TP103	TP103	TP105	TP107	TP109	TP110	TP113
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	1.10	0.20	1.50	2.00	0.50	1.40	2.40	1.10
	Date Sampled:				23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Moisture	N	2030	%	0.020	12	20	16	19	20	18	19	19	19
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
pH	M	2010		4.0	7.4	7.8	8.1	8.0	7.7	7.7	8.0	8.1	8.1
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		< 0.010	< 0.010	< 0.010	< 0.010	0.037	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010		< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Sulphate (Acid Soluble)	M	2430	%	0.010		< 0.010	< 0.010	< 0.010	< 0.010	0.011	< 0.010	< 0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	3.8	6.2	7.2	10	6.5	5.1	9.6	4.3	7.3
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	16	20	24	35	25	19	39	20	28
Copper	M	2450	mg/kg	0.50	7.1	5.9	6.2	10	9.1	2.6	15	7.6	11
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	5.6	6.8	7.7	42	29	6.3	29	23	18
Lead	M	2450	mg/kg	0.50	21	5.3	8.3	7.6	7.1	5.1	10	5.5	8.0
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	0.33	< 0.20	< 0.20	0.37	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	20	14	19	34	31	14	47	22	35
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147
Quotation No.:	Chemtest Sample ID.:				1290106	1290107	1290108	1290109	1290110	1290111	1290112	1290113	1290114
	Sample Location:				TP101	TP101	TP103	TP103	TP105	TP107	TP109	TP110	TP113
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.20	1.10	0.20	1.50	2.00	0.50	1.40	2.40	1.10
	Date Sampled:				23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147
Quotation No.:	Chemtest Sample ID.:				1290115	1290116	1290117	1290118	1290119	1290120	1290121	1290122	1290123
	Sample Location:				TP114	TP116	TP117	TP117	TP118	TP119	TP119	TP120	TP120
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				2.10	0.70	0.20	0.70	0.30	0.20	1.30	0.30	1.20
	Date Sampled:				23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Moisture	N	2030	%	0.020	19	17	9.1	18	6.7	12	14	10	19
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones and Roots	Stones	Stones and Roots	Stones and Roots	Stones	Stones and Roots	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Sand	Clay	Sand	Sand	Clay	Sand	Clay
pH	M	2010		4.0	8.2	7.9	7.5	8.0	7.6	7.2	8.0	7.3	7.7
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010
Total Sulphur	M	2175	%	0.010	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010	< 0.010		< 0.010			< 0.010		< 0.010
Arsenic	M	2450	mg/kg	1.0	7.1	8.1	6.0	10	1.6	4.5	7.6	4.5	5.2
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	31	37	29	27	8.7	19	23	20	19
Copper	M	2450	mg/kg	0.50	11	10	7.9	8.8	1.8	6.7	8.4	5.5	7.1
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	30	15	7.5	12	2.3	5.2	18	5.4	18
Lead	M	2450	mg/kg	0.50	8.2	9.5	27	8.5	5.8	24	6.6	17	5.5
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.24
Zinc	M	2450	mg/kg	0.50	38	33	29	24	7.1	21	24	20	22
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0		< 5.0			< 5.0		< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	< 1.0		< 1.0			< 1.0		< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0	< 5.0		< 5.0			< 5.0		< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10	< 10		< 10			< 10		< 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners		Chemtest Job No.:		21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147	21-34147
Quotation No.:		Chemtest Sample ID.:		1290115	1290116	1290117	1290118	1290119	1290120	1290121	1290122	1290123	1290123
		Sample Location:		TP114	TP116	TP117	TP117	TP118	TP119	TP119	TP120	TP120	TP120
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		2.10	0.70	0.20	0.70	0.30	0.20	1.30	0.30	1.20	1.20
		Date Sampled:		23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021
Determinand	Accred.	SOP	Units	LOD									
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-34147	21-34147	21-34147	21-34147
Quotation No.:	Chemtest Sample ID.:				1290124	1290125	1290126	1290127
	Sample Location:				TP121	TP121	TP122	TP122
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.40	1.10	0.45	1.50
	Date Sampled:				23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021
Determinand	Accred.	SOP	Units	LOD				
Moisture	N	2030	%	0.020	19	12	10	18
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Sand	Clay
pH	M	2010		4.0	8.2	7.5	7.8	8.3
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010		< 0.010		< 0.010
Total Sulphur	M	2175	%	0.010		0.016		< 0.010
Sulphate (Acid Soluble)	M	2430	%	0.010		0.019		< 0.010
Arsenic	M	2450	mg/kg	1.0	9.1	6.1	4.9	26
Cadmium	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	23	20	21	64
Copper	M	2450	mg/kg	0.50	11	6.5	6.1	29
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	26	7.0	7.6	61
Lead	M	2450	mg/kg	0.50	7.8	16	14	21
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	0.21	0.37
Zinc	M	2450	mg/kg	0.50	31	29	28	82
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0		< 1.0		< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0		< 1.0		< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0		< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0		< 5.0
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0		< 1.0		< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0		< 1.0		< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0		< 1.0		< 1.0
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0		< 1.0		< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0		< 1.0		< 1.0
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0		< 5.0		< 5.0
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0		< 10		< 10
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 41623 Finchampstead, Hogwood Farm

Client: Eastwood & Partners	Chemtest Job No.:				21-34147	21-34147	21-34147	21-34147
Quotation No.:	Chemtest Sample ID.:				1290124	1290125	1290126	1290127
	Sample Location:				TP121	TP121	TP122	TP122
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.40	1.10	0.45	1.50
	Date Sampled:				23-Sep-2021	23-Sep-2021	23-Sep-2021	23-Sep-2021
Determinand	Accred.	SOP	Units	LOD				
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazine.
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Inorganic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)
Arsenic	37
Cadmium	11
Chromium (III)	910
Chromium (VI)	6
Lead	200
Mercury	1.2
Nickel	180
Selenium	250
Copper	2400
Zinc	3700

Organic Compounds	Human Health - Residential with Homegrown Produce (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	2.3	5.6	13
Acenaphthene	210	510	1100
Acenaphthylene	170	420	920
Fluorene	170	400	860
Phenanthrene	95	220	440
Anthracene	2400	5400	11000
Fluoranthene	280	560	890
Pyrene	620	1200	2000
Benzo(a)anthracene	7.2	11	13
Chrysene	15	22	27
Benzo(b)fluoranthene	2.6	3.3	3.7
Benzo(k)fluoranthene	77	93	100
Benzo(a)pyrene	2.2	2.7	3.0
Dibenz(a,h)anthracene	0.24	0.28	0.3
Indeno(1,2,3-cd)pyrene	27	36	41
Benzo(g,h,i)perylene	320	340	350
Benzene	0.087	0.17	0.37
Toluene	130	290	660
Ethylbenzene	47	110	260
o-Xylene	60	140	330
m-Xylene	59	140	320
p-Xylene	56	130	310

Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3153. All rights reserved.

Prepared	KB	Checked	RAN	Date	17.12.2021	Job No	41623
----------	----	---------	-----	------	------------	--------	-------

EOP Eastwood&Partners CONSULTING ENGINEERS St Andrew's House 23 Kingfield Road Sheffield S11 9AS Tel: (0114) 255 4554 Fax: (0114) 255 4330	PARCEL 7 HOGWOOD FARM (FINCHWOOD PARK) CALA HOMES THAMES AND LEGAL & GENERAL LIMITED ASSESSMENT CRITERIA – RESIDENTIAL WITH HOMEGROWN PRODUCE
--	---

Contaminant	Phytotoxicity			
	pH 5.0 to 5.5	pH 5.5 to 6.0	pH 6.0 to 6.5	pH >7.0
Arsenic	50			
Cadmium	3			
Chromium	400			
Lead	300			
Mercury	1			
Nickel	50	60	75	110
Copper	80	100	135	200
Zinc	200	200	200	300

The assessment concentration for lead is the Category 4 Screening Level produced by Contaminated Land: Applications in Real Environments (CL:AIRE) and outlined in Appendix H of their report SP1010. The others have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, *'The LQM/CIEH S4ULs for Human Health Risk Assessment'*, Land Quality Press, Nottingham. The metals/metalloids are based on a sandy loam soil and 6% soil organic matter. The assessment values are not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. Instead, the modified mean value should be compared with the assessment concentration.

The assessment values for phytotoxicity are the levels at which plant growth is thought to be affected. They are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the *'The Code of Good Agricultural Practice for the Protection of Soil'*, MAFF, 1998.

The assessment of sulphate, water soluble sulphate, elemental sulphur and sulphide is to determine the aggressive nature of the ground with respect to concrete and consequently the results are compared with BRE Special Digest 1:2005 *'Concrete in Aggressive Ground'*.

Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3153. All rights reserved.

Prepared	KB	Checked	RAN	Date	17.12.2021	Job No	41623
-----------------	----	----------------	-----	-------------	------------	---------------	-------

 Eastwood & Partners CONSULTING ENGINEERS St Andrew's House 23 Kingfield Road Sheffield S11 9AS Tel: (0114) 255 4554 Fax: (0114) 255 4330	PARCEL 7 HOGWOOD FARM (FINCHWOOD PARK) CALA HOMES THAMES AND LEGAL & GENERAL LIMITED ASSESSMENT CRITERIA – RESIDENTIAL WITH HOMEGROWN PRODUCE
--	---

Appendix 5

Geotechnical Test Results



LABORATORY REPORT



4043

Contract Number: PSL21/1507

Report Date: 10 March 2021
Client's Reference: 41623
Client Name: Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

For the attention of: Gary Clarke

Contract Title: Finchampstead
Date Received: 19/2/2021
Date Commenced: 19/2/2021
Date Completed: 10/3/2021

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Senior Technician)

S Eyre
(Senior Technician)


T Watkins
(Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: awatkins@prosoils.co.uk
rberriman@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP05		D	2.00		Brown sandy CLAY.
TP09		D	1.50		Brown sandy CLAY.
TP13		D	2.30		Brown sandy CLAY.
TP19		D	1.10		Brown sandy CLAY.
TP24		D	2.50		Brown sandy CLAY.
TP30		D	1.00		Brown slightly gravelly sandy CLAY.
TP33		D	1.50		Brown slightly sandy CLAY.
TP36		D	1.00		Brown slightly sandy CLAY.
TP37		D	0.70		Brown slightly sandy CLAY.
BH01		U	3.05		Stiff brown slightly sandy CLAY.
BH01		U	6.05		Very stiff brown slightly sandy CLAY.
BH01		U	12.05		Very stiff brown slightly sandy CLAY.
BH01		U	18.20		Very stiff brown slightly sandy CLAY.
BH02		U	6.05		Very stiff brown slightly sandy CLAY.
BH02		U	12.15		Very stiff brown slightly sandy CLAY.
BH02		U	18.25		Very stiff brown CLAY.
BH03		U	1.55		Very stiff brown slightly sandy CLAY.
BH03		U	5.00		Very stiff brown slightly sandy CLAY.
BH03		U	7.55		Very stiff brown slightly sandy CLAY.



4043

PSL
Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

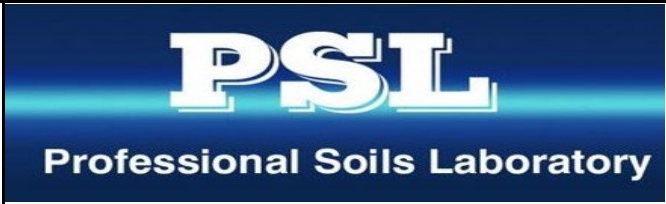
SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

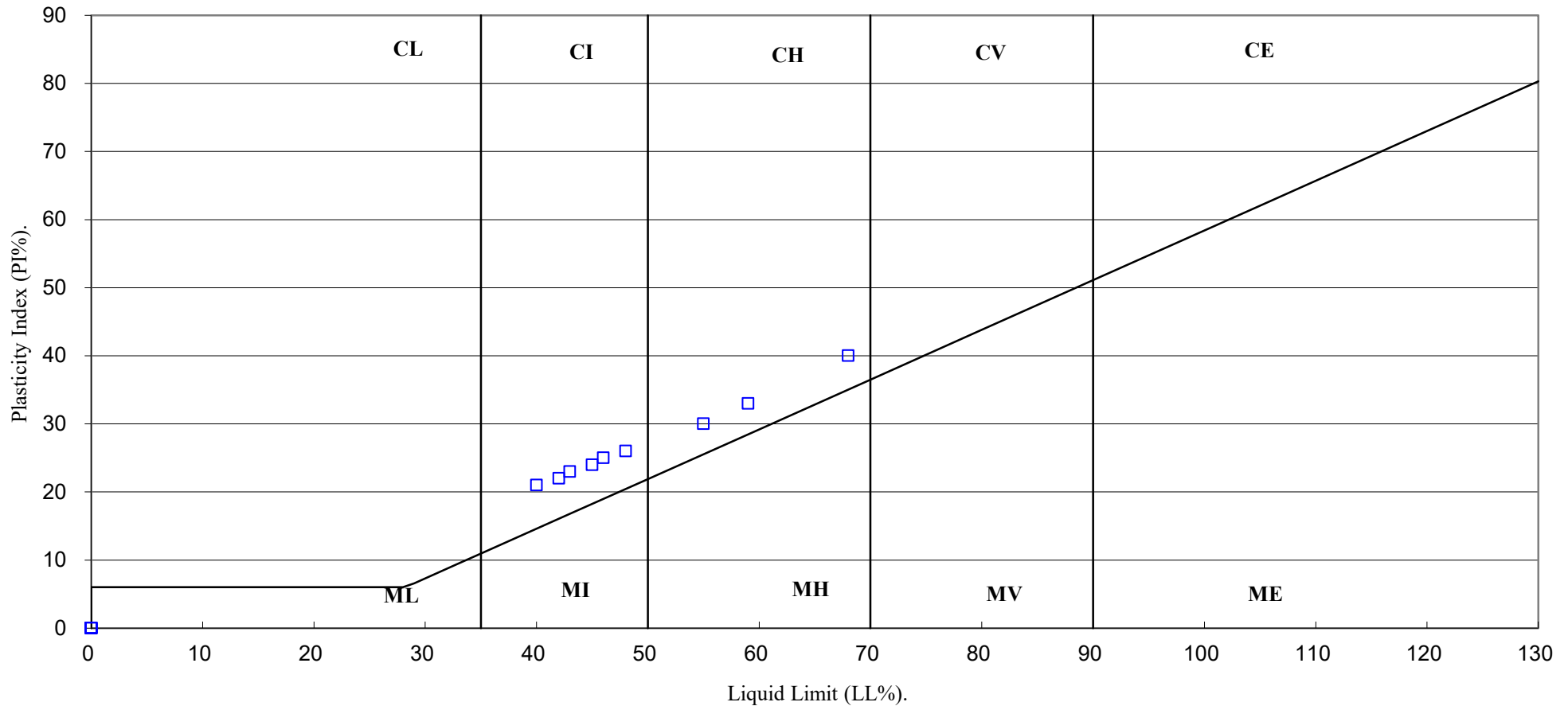
Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m ³ Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP05		D	2.00		25			42	20	22	100	Intermediate Plasticity CI
TP09		D	1.50		27			48	22	26	100	Intermediate Plasticity CI
TP13		D	2.30		19			45	21	24	100	Intermediate Plasticity CI
TP19		D	1.10		25			43	20	23	100	Intermediate Plasticity CI
TP24		D	2.50		25			46	21	25	100	Intermediate Plasticity CI
TP30		D	1.00		21			40	19	21	98	Intermediate Plasticity CI
TP33		D	1.50		31			68	28	40	100	High Plasticity CH
TP36		D	1.00		27			55	25	30	100	High Plasticity CH
TP37		D	0.70		26			59	26	33	100	High Plasticity CH

SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

		Finchampstead	Contract No:
			PSL21/1507
			Client Ref:
			41623

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



4043

PSL
Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

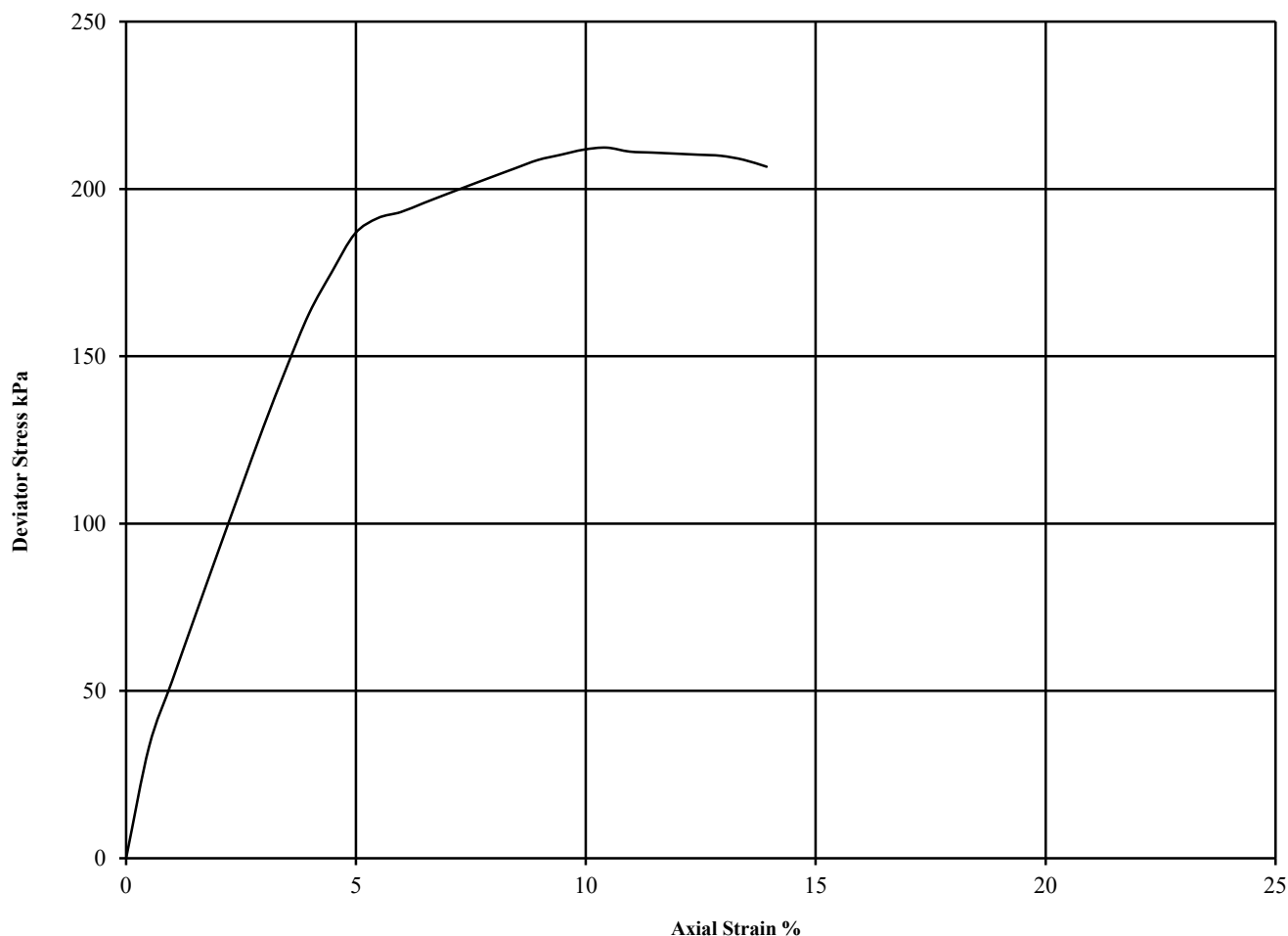
Hole Number: BH01

Top Depth (m): 3.05

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	24	2.00	1.61	60	212	106	10.4	Plastic	



4043

PSL
Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

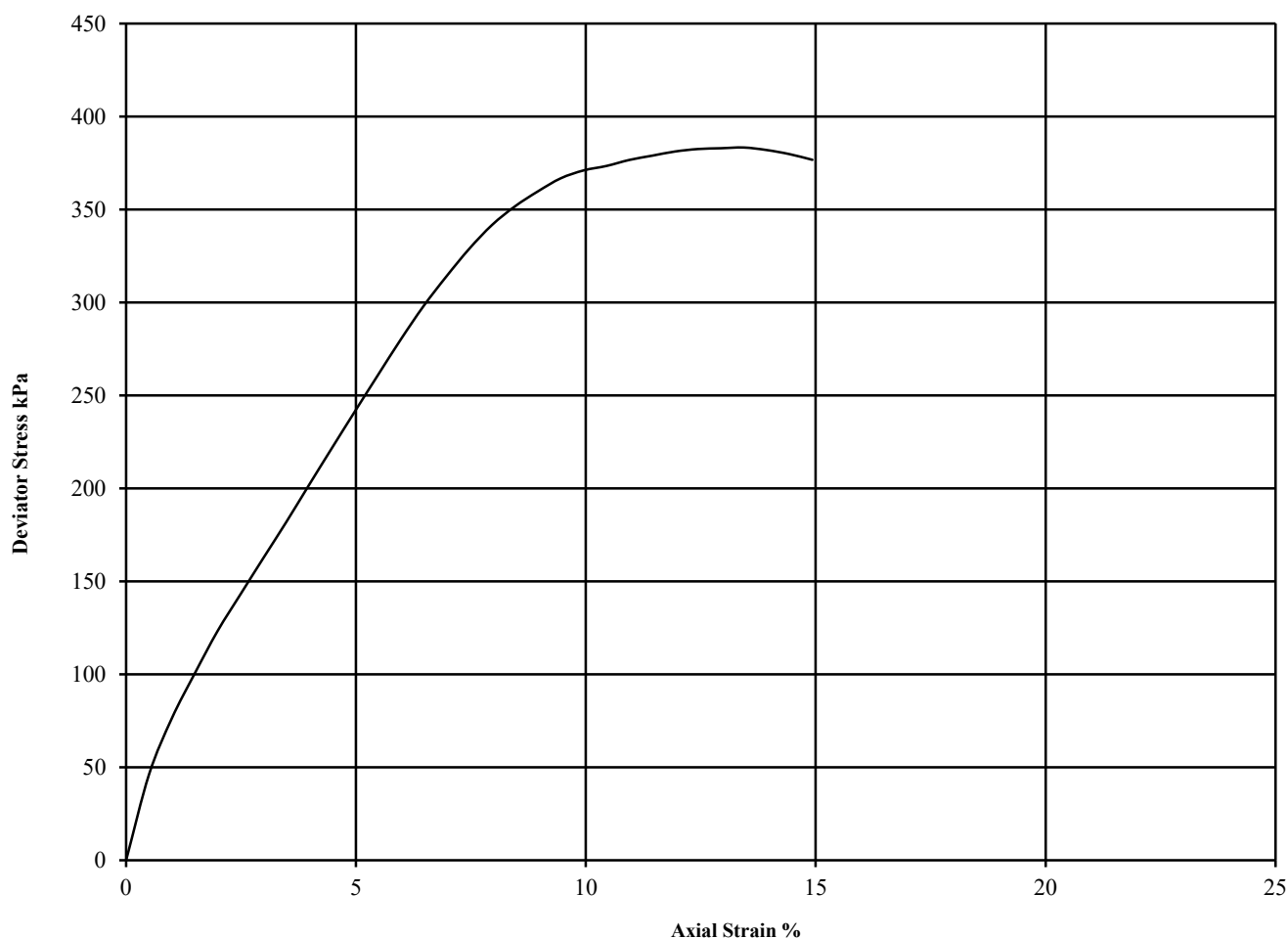
Hole Number: BH01

Top Depth (m): 6.05

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	20	2.05	1.71	120	383	192	13.4	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

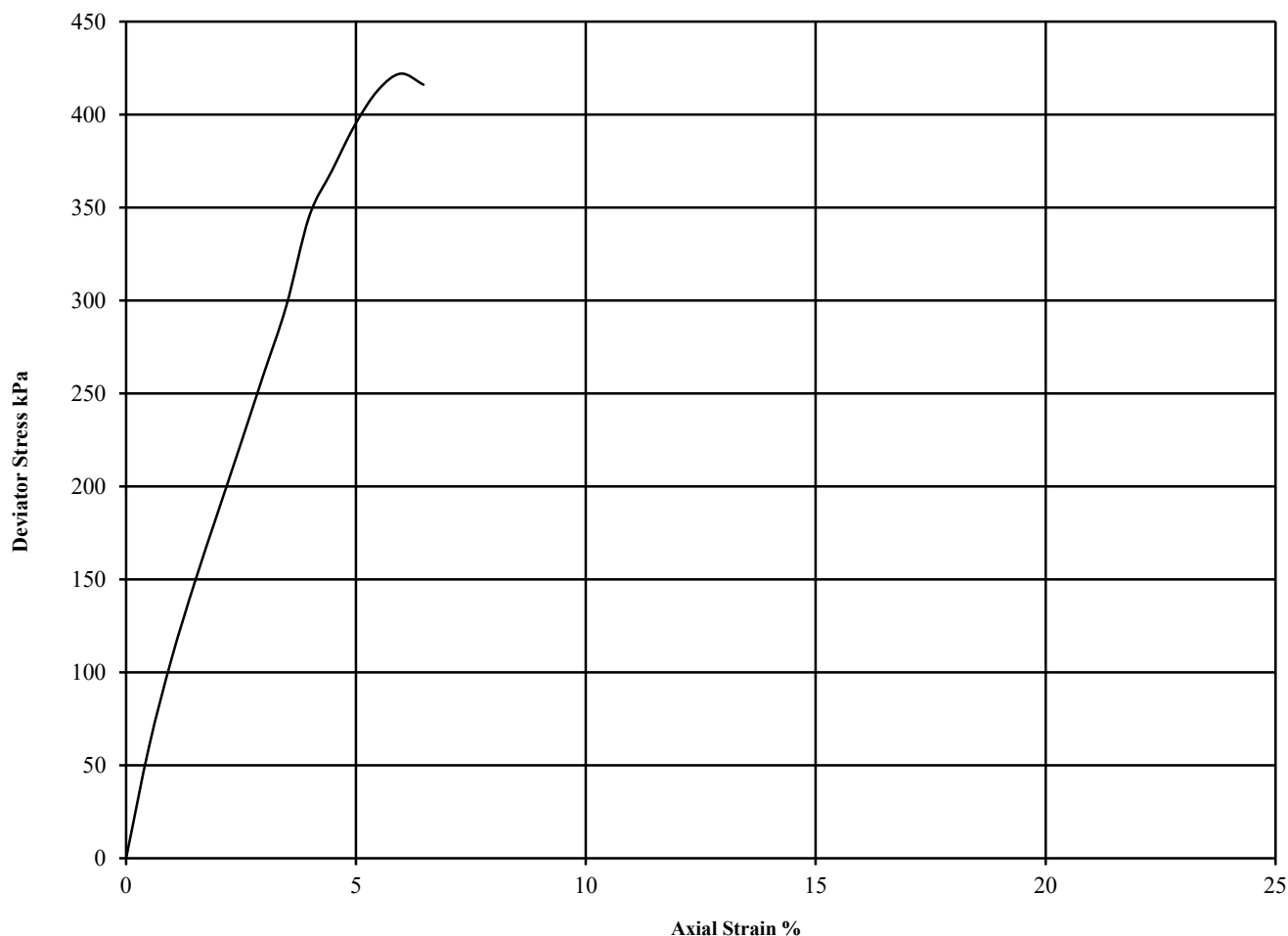
Hole Number: BH01

Top Depth (m): 12.05

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	22	1.98	1.63	240	422	211	6.0	Brittle	



4043

PSL
Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

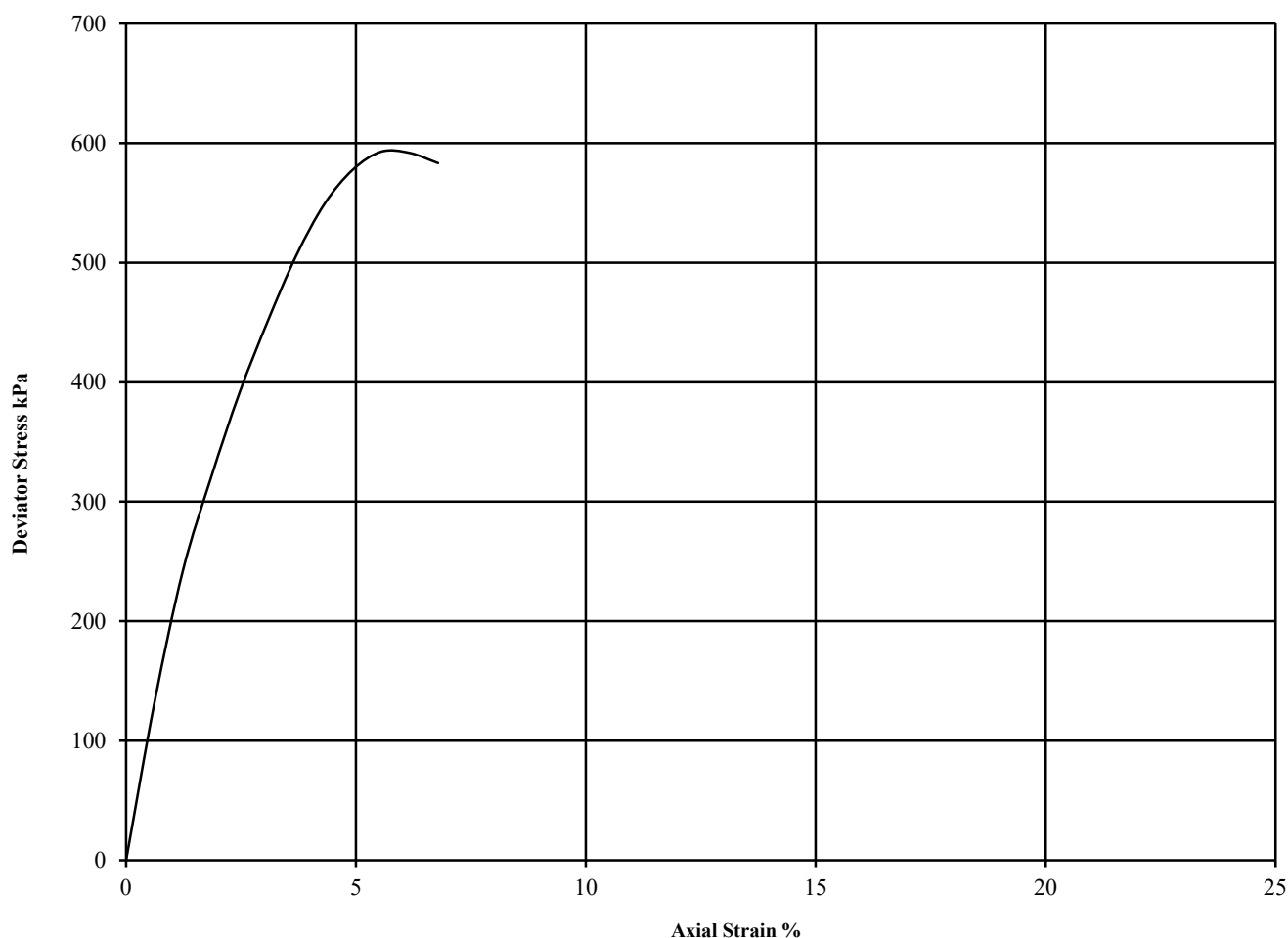
Hole Number: BH01

Top Depth (m): 18.20

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		167	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	20	2.02	1.68	360	593	296	5.6	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

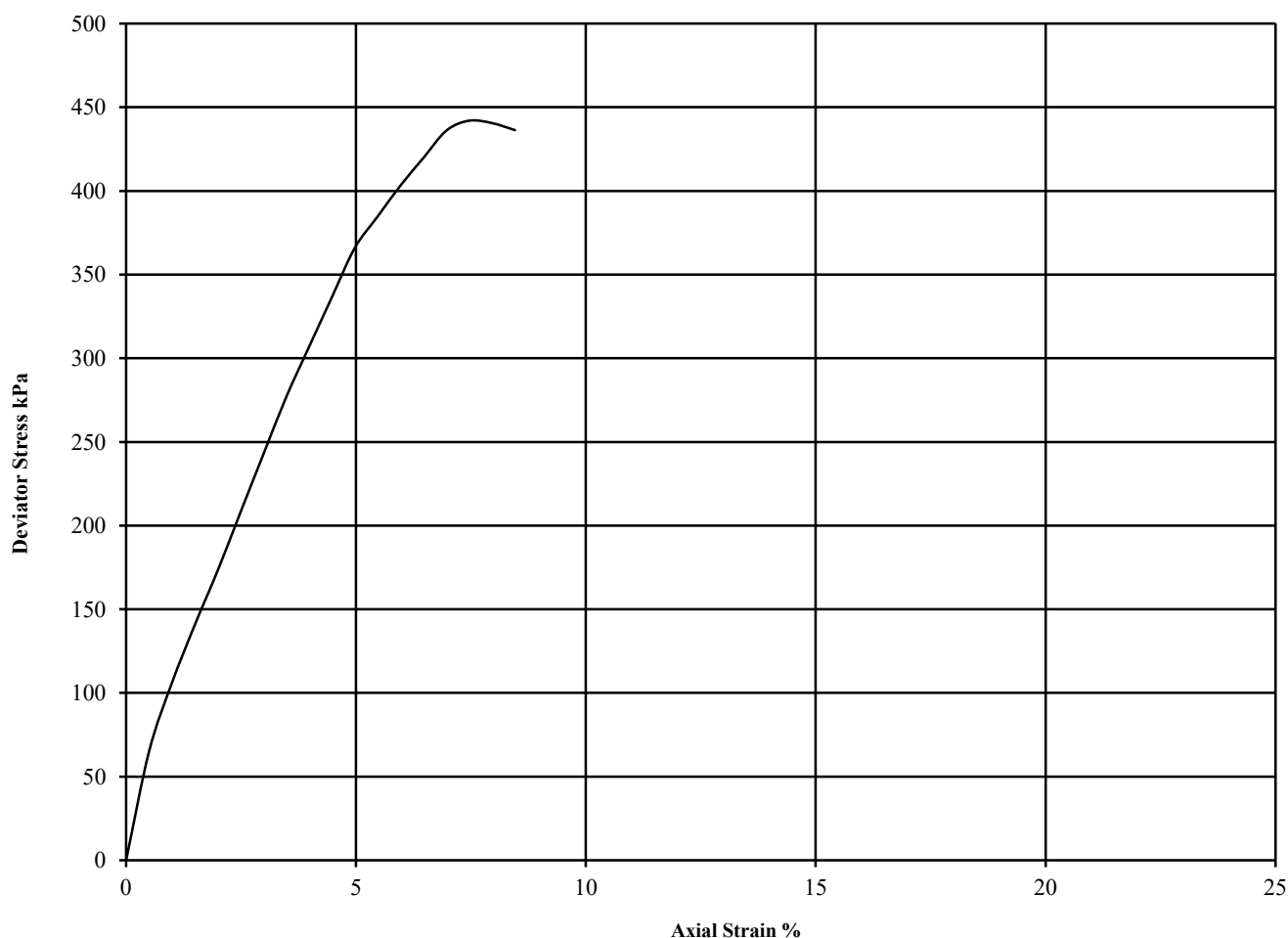
Hole Number: BH02

Top Depth (m): 6.05

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	20	2.06	1.72	120	442	221	7.5	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

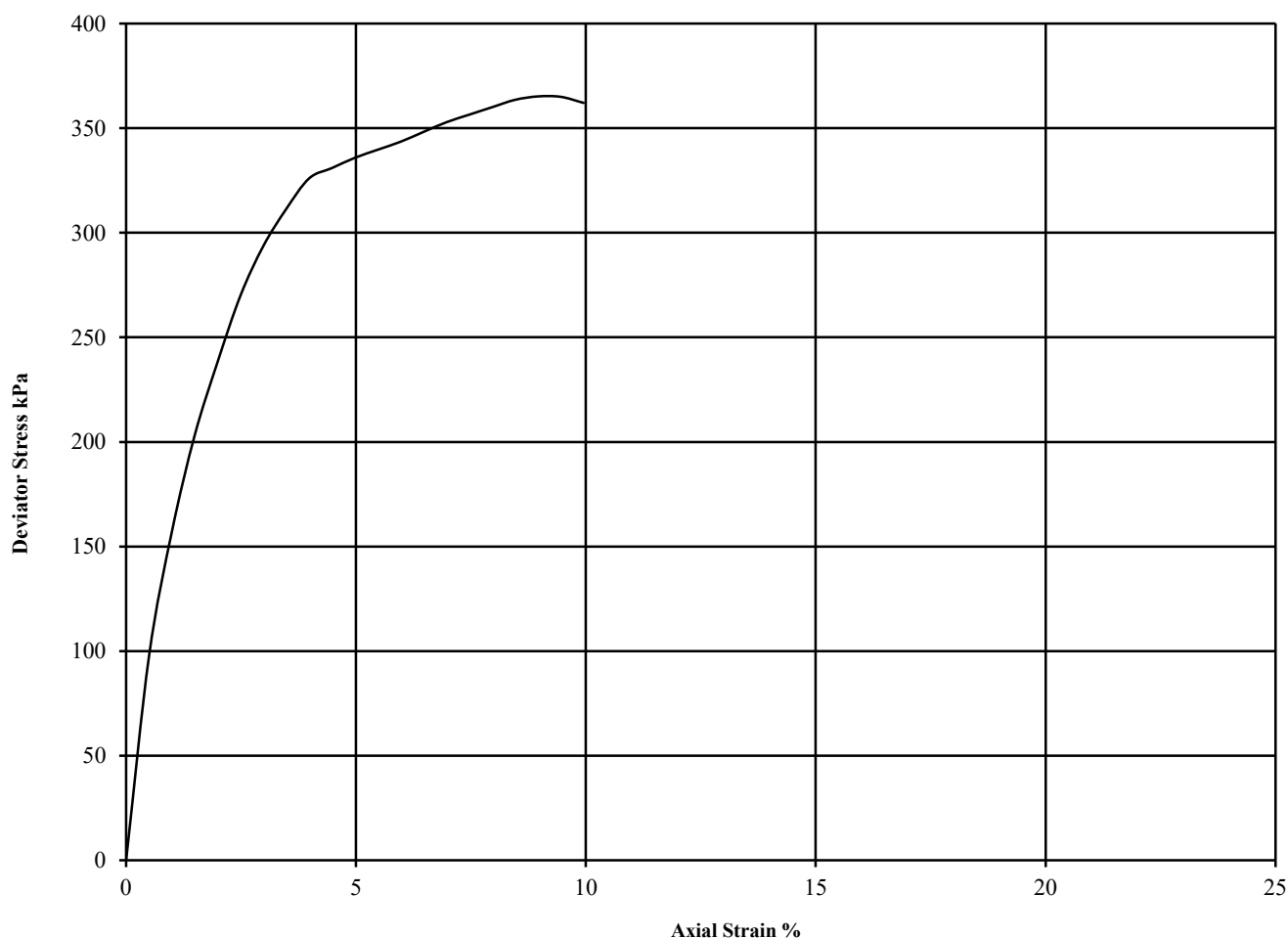
Hole Number: BH02

Top Depth (m): 12.15

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	23	2.03	1.64	240	365	183	9.0	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

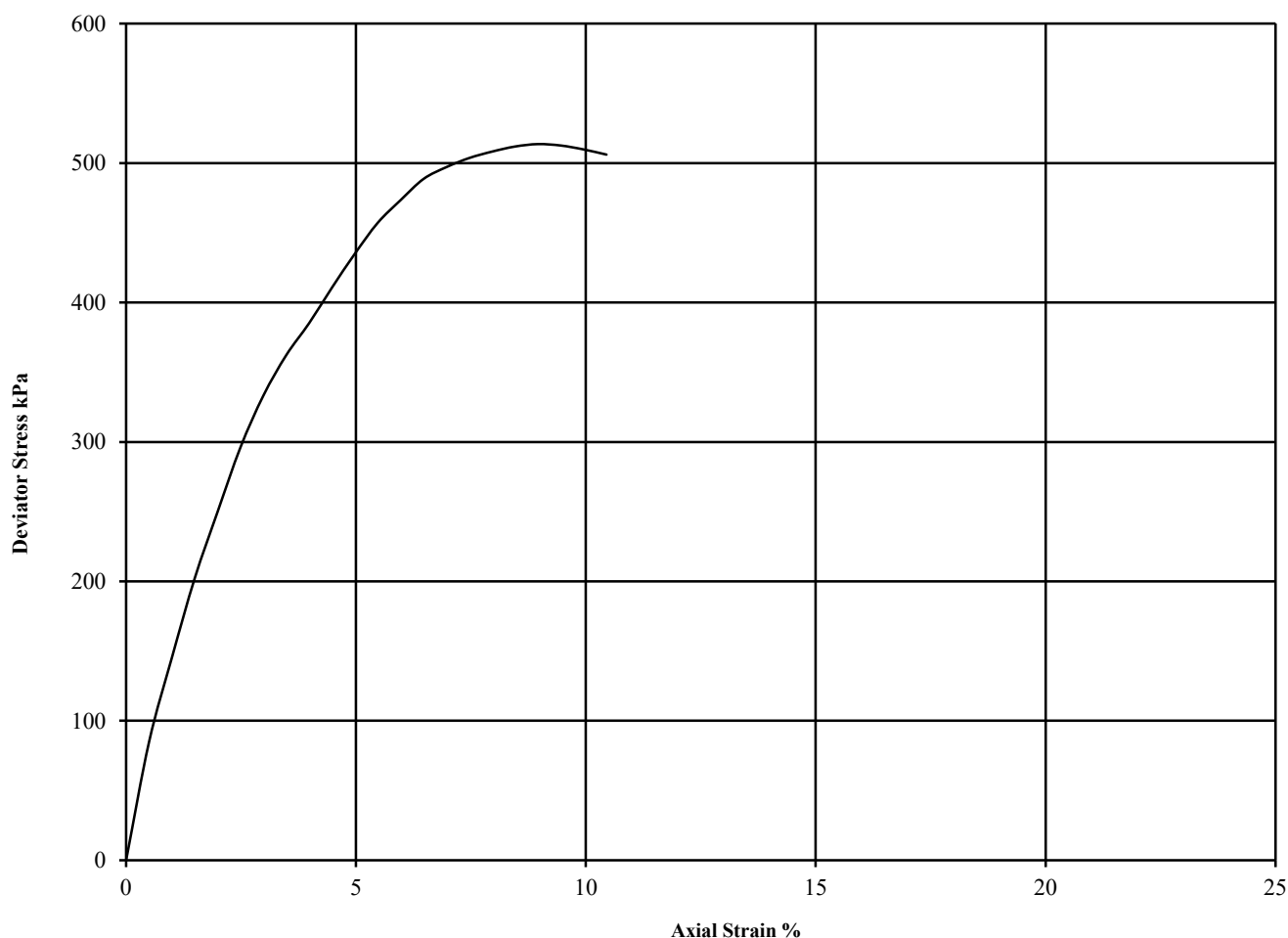
Hole Number: BH02

Top Depth (m): 18.25

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	25	2.03	1.63	360	514	257	9.0	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

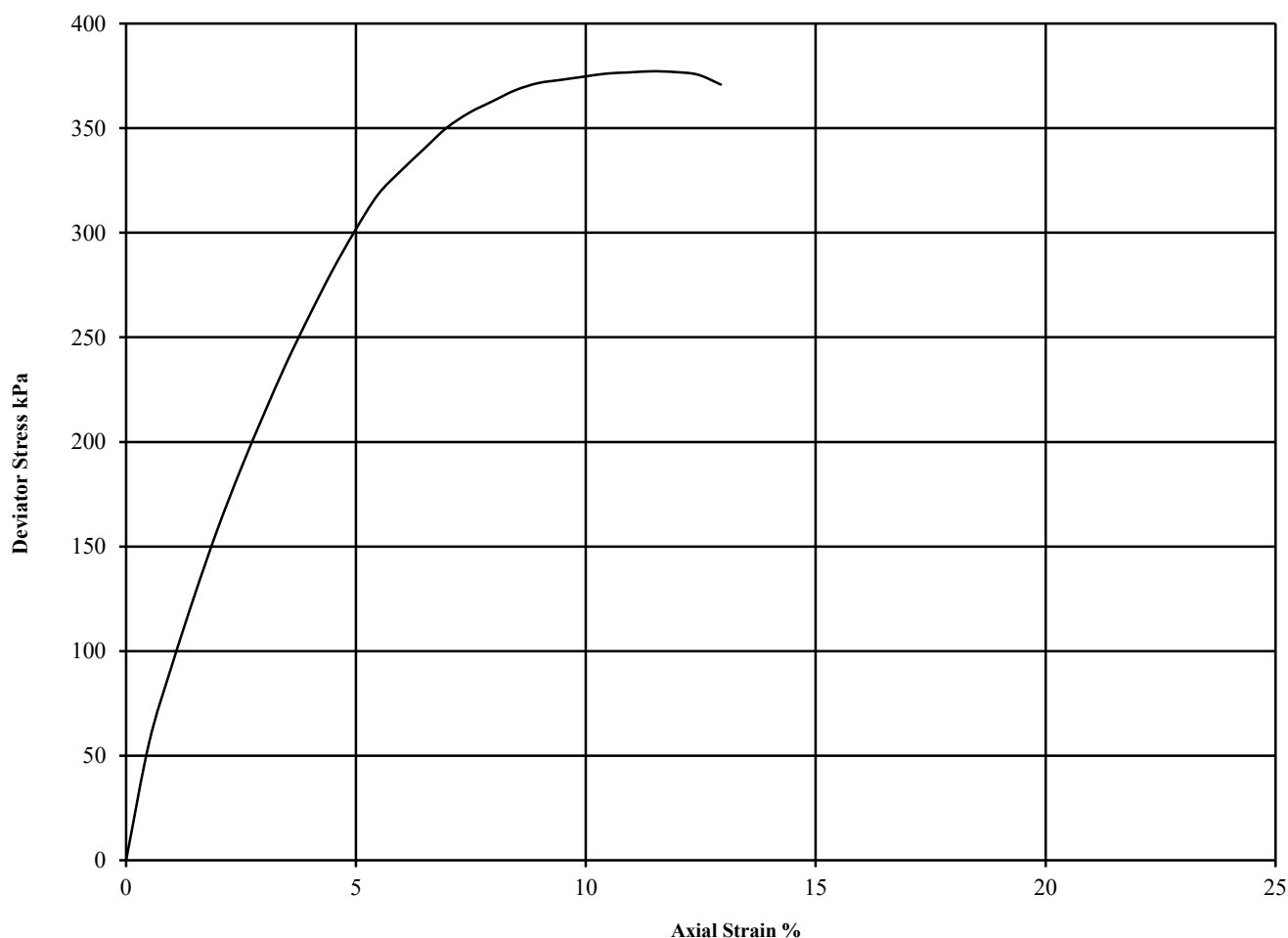
Hole Number: BH03

Top Depth (m): 1.55

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	24	2.00	1.62	30	377	189	11.4	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

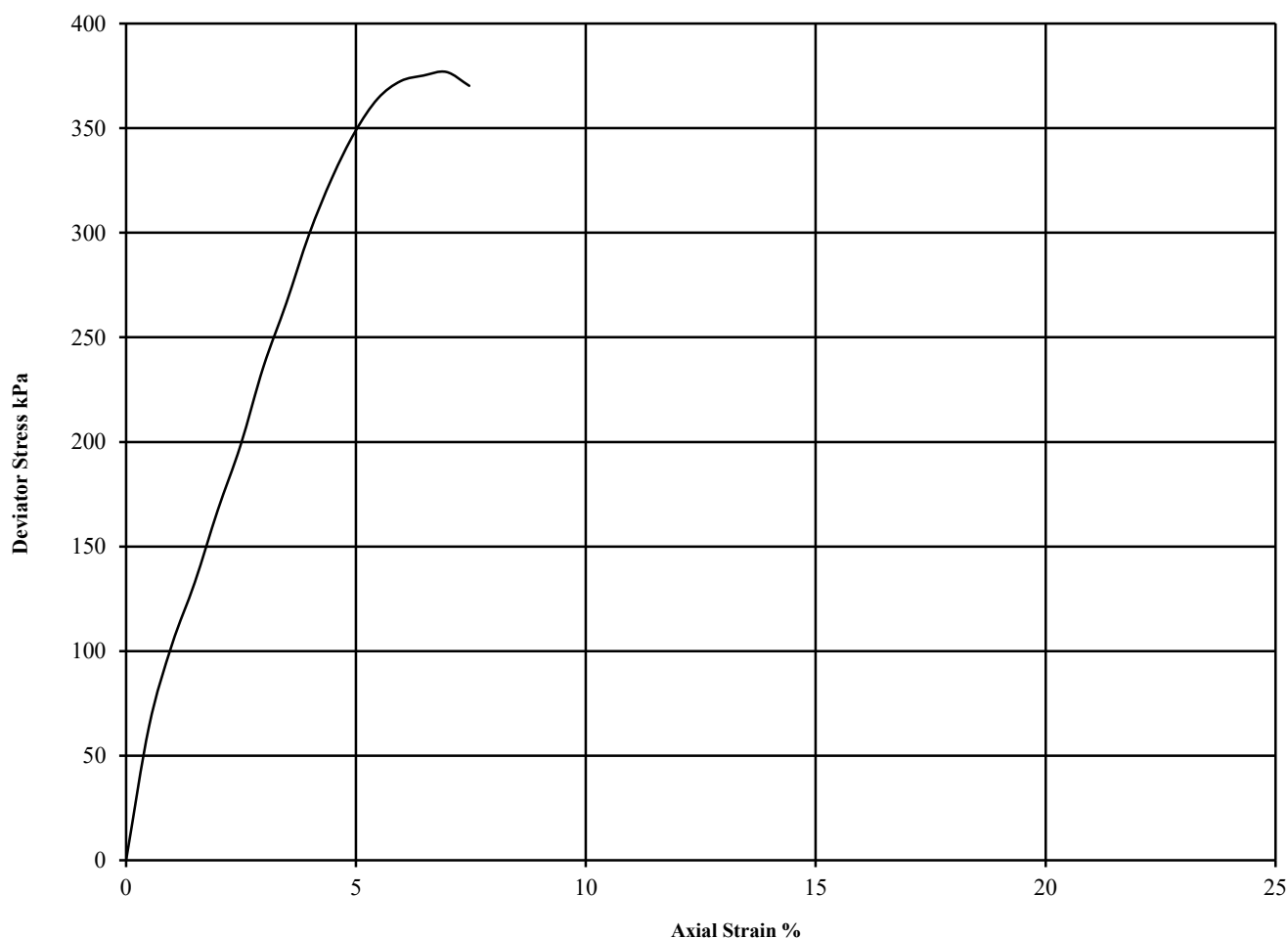
Hole Number: BH03

Top Depth (m): 5.00

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	21	1.98	1.64	100	377	188	7.0	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

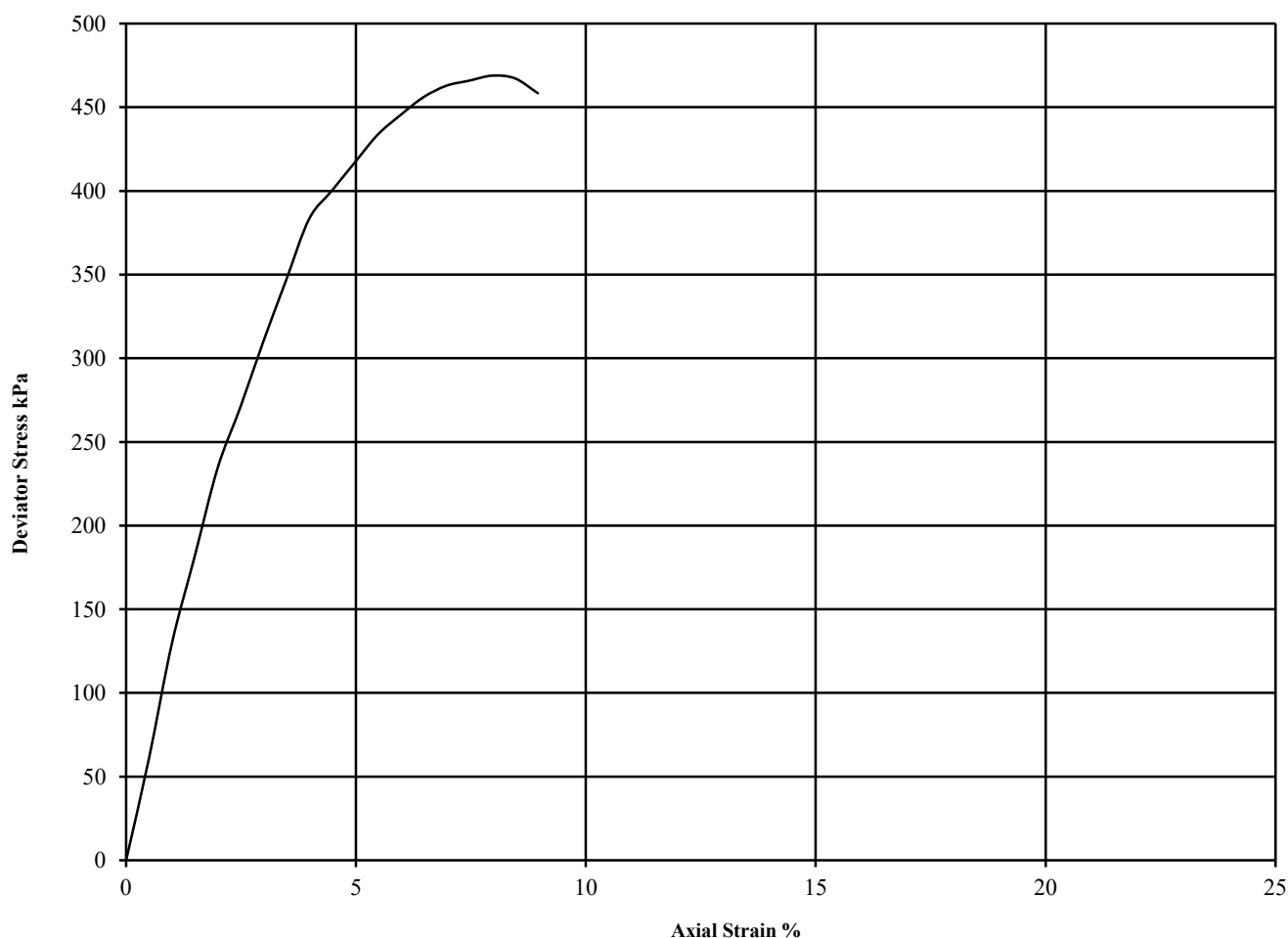
Hole Number: BH03

Top Depth (m): 7.55

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	21	2.02	1.67	150	469	234	8.0	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

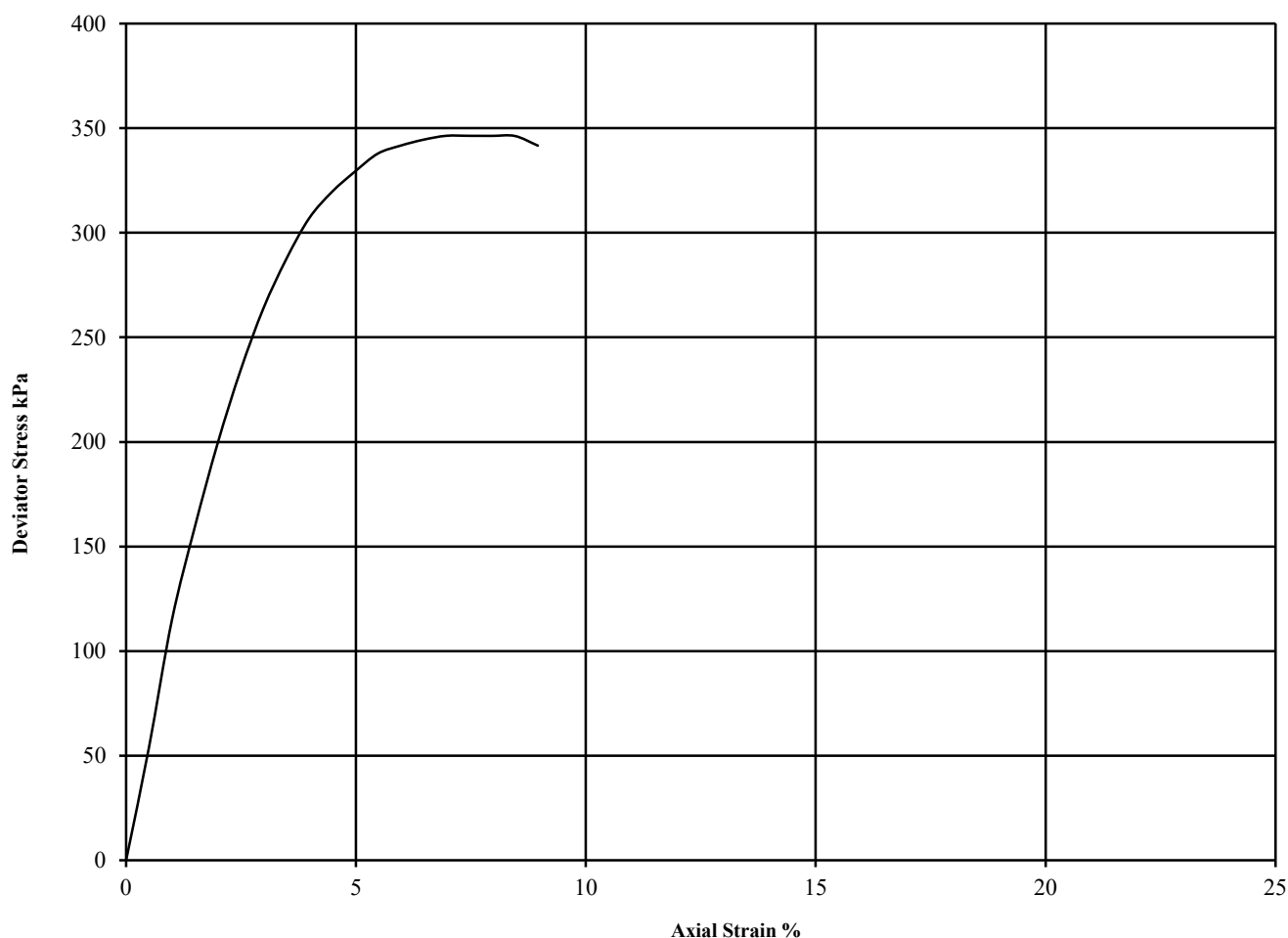
Hole Number: BH03

Top Depth (m): 10.70

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	21	1.99	1.64	220	346	173	7.0	Brittle	



4043

PSL
Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

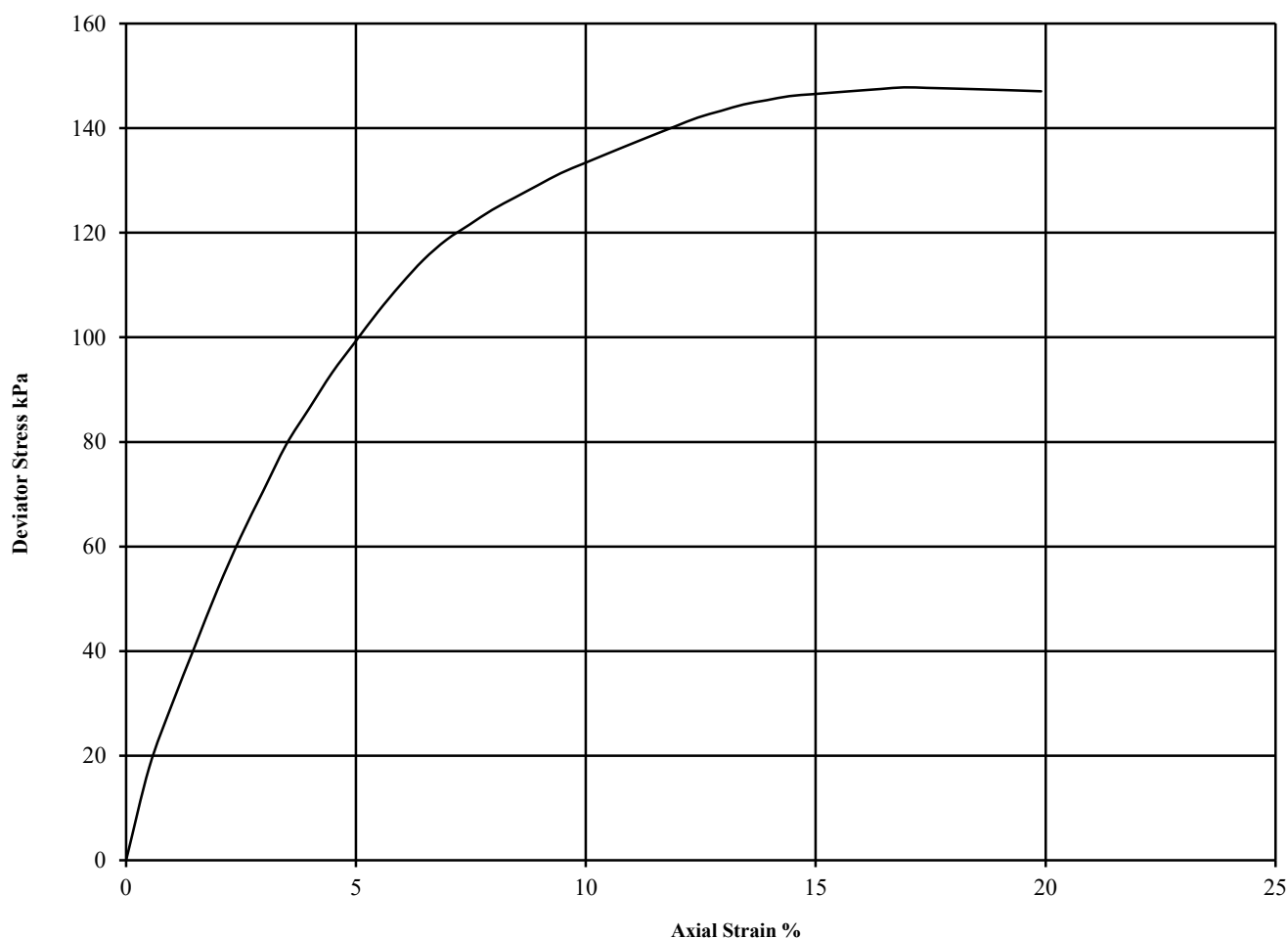
Hole Number: BH03

Top Depth (m): 13.70

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	24	2.00	1.61	280	148	74	16.9	Plastic	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

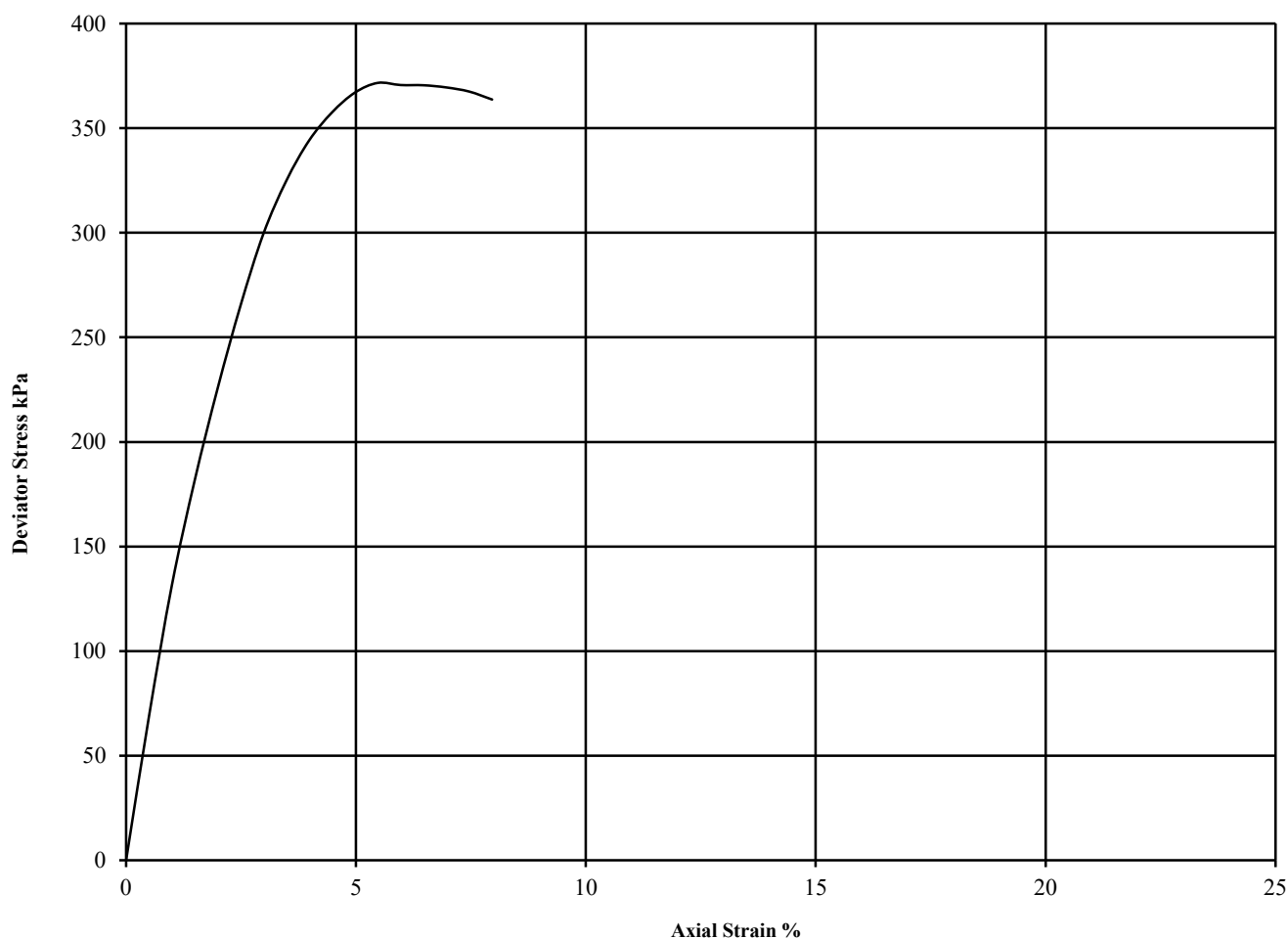
Hole Number: BH03

Top Depth (m): 16.70

Sample Number:

Base Depth (m):

Sample Type U



Diameter (mm):		103	Height (mm):		207	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.36 See summary of soil descriptions
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$			
1	24	2.01	1.63	340	372	186	5.5	Brittle	



4043

PSL

Professional Soils Laboratory

Finchampstead

Contract No:

PSL21/1507

Client Ref:

41623

GEOLABS Limited
Unit D3 HRS Business Park
Granby Avenue
Birmingham
B33 0SJ

Tel: +44(0) 121 296 4600
Fax: +44(0) 121 296 4599
email: admin@geolabs.co.uk
web: www.geolabs.co.uk

Eastwood and Partners (Consulting Engineers) Limited
The Old Pumping House
Main Road
Littleton
Winchester
SO22 6PR

19 November 2021

Report No : GEO/34197/01

Page 1 of 1

For the attention of Ms M Ebling / Ms R Noble

Our ref **GEO / 34197**
Your Ref **41623**

Date samples received 26/10/2021
Date written instructions received 26/10/2021
Date testing commenced 27/10/2021
Date of sample disposal 17/12/2021

Project **HOGWOOD FARM**

Further to your instructions we have pleasure in enclosing the results of the tests you requested in the attached figures.

LABORATORY TEST REPORT

Item No	Test Quantity	Description
1	~	Liquid & Plastic Limits Summary
~	15	Water Content
2	15	Liquid & Plastic Limits

Any opinions or interpretations expressed herein are outside the scope of UKAS accreditation. All results contained in this report are provisional unless signed by an approved signatory. The results contained in this report relate only to samples received in the laboratory and are tested 'as received' unless otherwise stated. This report should not be reproduced, except in full, without the written approval of the laboratory.

All the necessary data required by the documented test procedures has been recorded and will be stored for a period of not less than 6 years. This data will be issued to yourselves at your request. All samples will be disposed of after the date shown above. Written confirmation will be required to retain the samples beyond this period and a storage charge may be applied.

We trust that the above meets your requirements and should you require any further information or assistance, please do not hesitate to contact us.

Yours faithfully
on behalf of **GEOLABS Limited**



J A Reynolds
Director

SUMMARY OF LIQUID AND PLASTIC LIMIT TESTS

Location	Depth m	Sample Ref	Sample Type	Description	Water Content BS EN ISO 17892-1 : 2014 %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Percentage Passing 425µm %	Atterberg Classification	Test Type	Sample Condition
TP301	2.30		D	Brown mottled orangish brown and grey very sandy CLAY.	25.6	43	19	24	100	CI	2	1
TP305	1.70		D	Brown mottled orange and grey sandy CLAY with rare fine to medium gravel.	29.3	46	19	27	99	CI	2	1
TP307	2.30		D	Brown very sandy CLAY.	25.8	40	18	22	100	CI	2	1
TP308	3.10		D	Brown mottled orange and light grey very sandy CLAY.	24.9	39	17	22	100	CI	2	1
TP310	1.60		D	Orangish brown mottled light grey very sandy CLAY.	25.7	41	16	25	100	CI	2	1
TP312A	2.30		D	Brown mottled greyish brown very sandy CLAY.	22.2	43	17	26	100	CI	2	1
TP315	1.50		D	Orange mottled light grey sandy CLAY.	28.6	49	19	30	100	CI	2	1
TP318	2.30		D	Brown mottled light grey sandy CLAY.	28.7	50	19	31	100	CI	2	1
TP320	1.70		D	Brown mottled light grey sandy CLAY.	27.9	51	22	29	100	CH	2	1
TP325	1.20		D	Brown mottled orange and light grey sandy CLAY.	26.3	55	21	34	100	CH	2	1
TP329	3.20		D	Brown very sandy CLAY.	23.7	42	17	25	100	CI	2	1
TP343	1.10		D	Greyish brown mottled light brown and orangish brown very sandy CLAY with rare fine gravel.	24.1	31	16	15	99	CL	2	1
TP345	2.70		D	Brownish grey mottled brown sandy CLAY.	27.1	53	20	33	100	CH	2	1
TP348	3.00		D	Light brown and greyish brown mottled sandy CLAY.	30.4	51	19	32	100	CH	2	1
TP350	1.50		D	Brown mottled greyish brown very sandy CLAY.	24.4	44	16	28	100	CI	2	1

Test Type:

1 - 1 point 80g / 30° fall cone method.
 2 - 4 point 80g / 30° fall cone method.
 3 - Non plastic determination.

Sample condition:

1 - As Received
 2 - Air Dried
 3 - Washed & Air Dried

Checked and Approved by:



19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623



LIQUID AND PLASTIC LIMITS

Location TP301
Depth (m) 2.30
Sample Type D

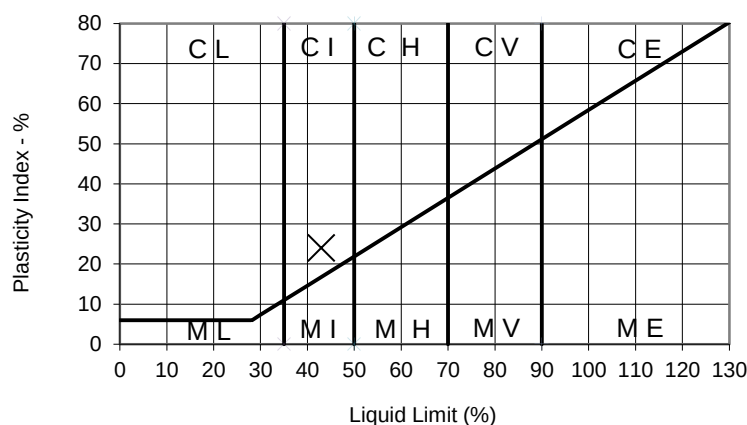
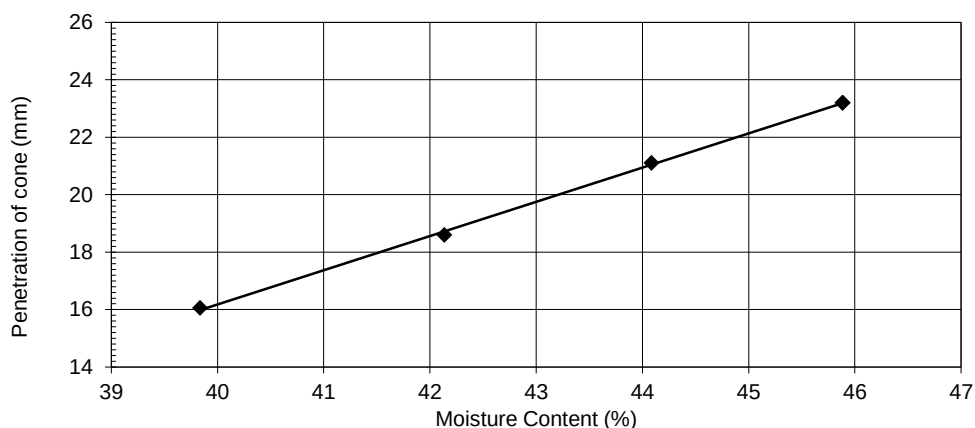
Description:

Brown mottled orangish brown and grey very sandy CLAY.

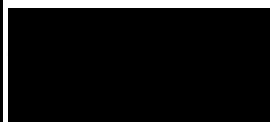
Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 25.6 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 43 %
Plastic Limit : 19 %
Plasticity Index : 24 %

Equivalent Water Content of material passing 425µm sieve : 25.6 %
Liquidity Index : 0.28



Tested by AD
Checked and Approved by



19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP305
Depth (m) 1.70
Sample Type D

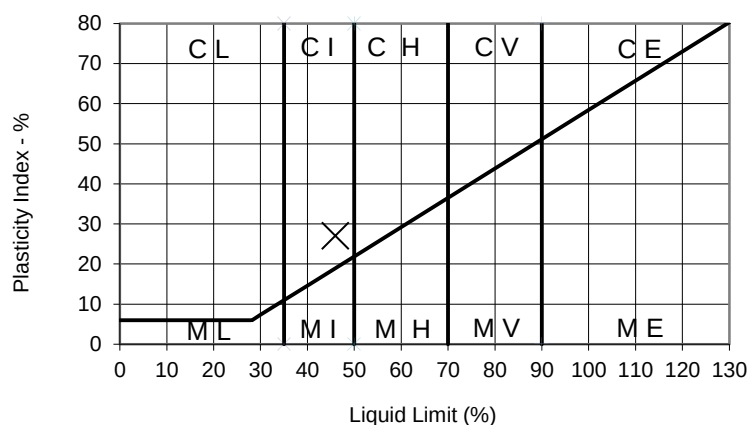
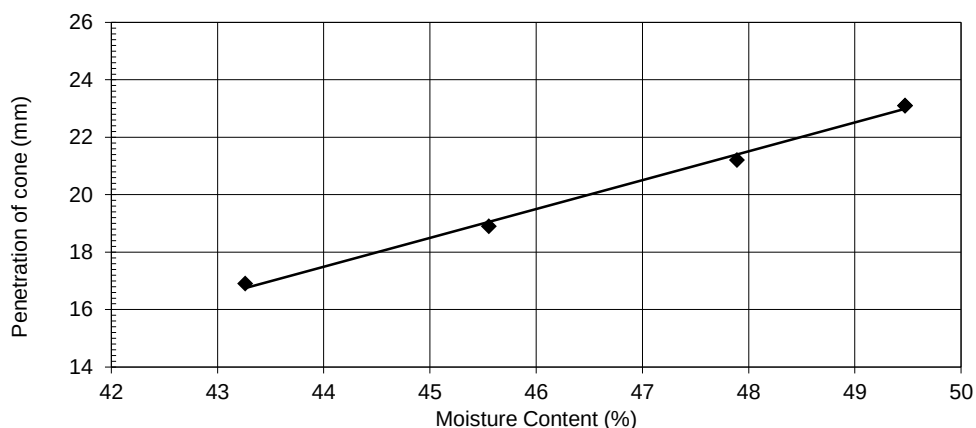
Description:

Brown mottled orange and grey sandy CLAY with rare fine to medium gravel.

Preparation : Sample as received with discrete coarse particles removed by hand.

Water Content : (BS EN ISO 17892-1:2014) 29.3 %
Estimated percentage passing 425µm sieve : 99 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 46 %
Plastic Limit : 19 %
Plasticity Index : 27 %

Equivalent Water Content of material passing 425µm sieve : 29.7 %
Liquidity Index : 0.40



Tested by AD
Checked and Approved by



19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623



LIQUID AND PLASTIC LIMITS

Location TP307
Depth (m) 2.30
Sample Type D

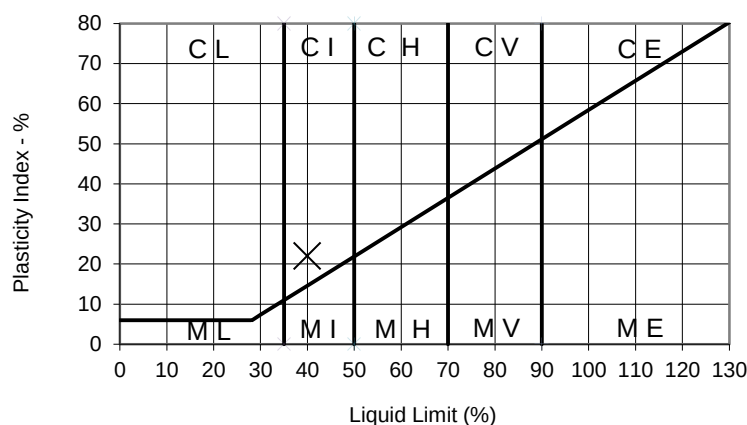
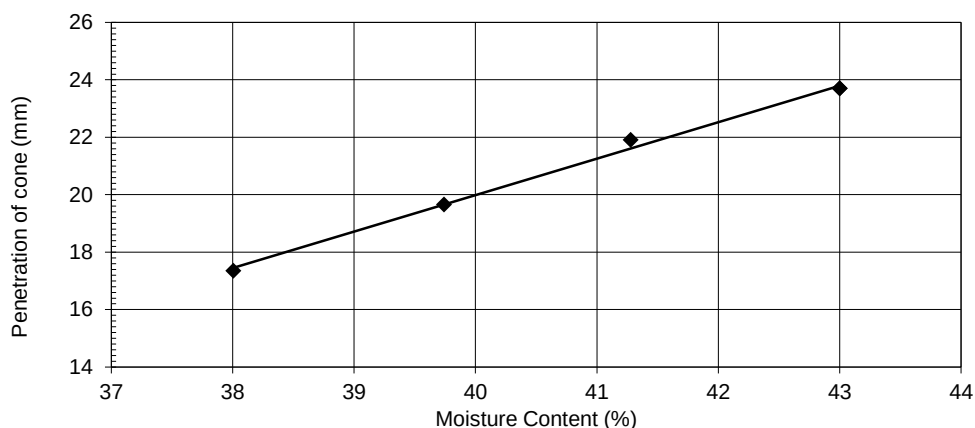
Description:

Brown very sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 25.8 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 40 %
Plastic Limit : 18 %
Plasticity Index : 22 %

Equivalent Water Content of material passing 425µm sieve : 25.8 %
Liquidity Index : 0.35



Tested by AD
Checked and Approved by



J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP308
Depth (m) 3.10
Sample Type D

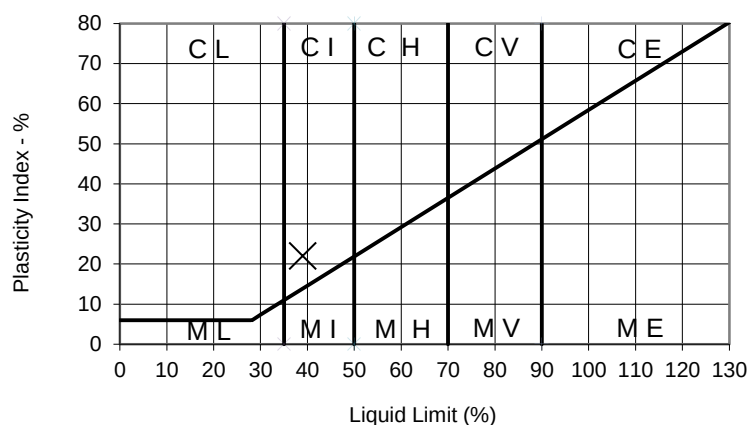
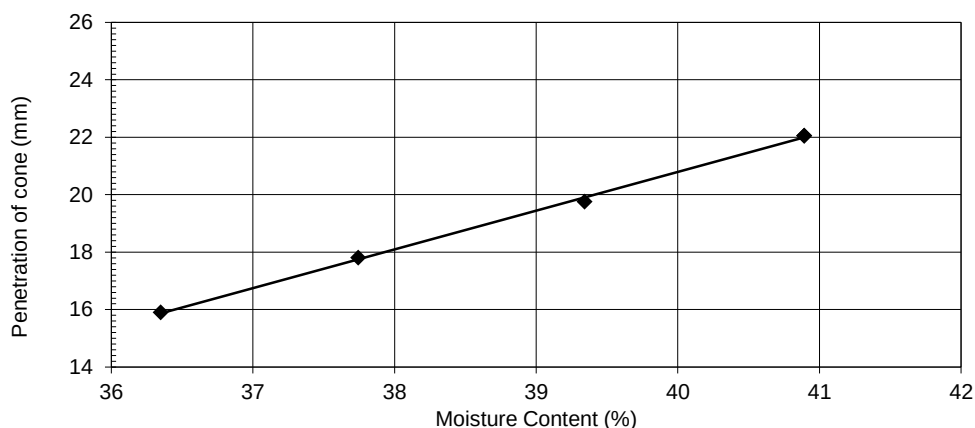
Description:

Brown mottled orange and light grey very sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 24.9 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 39 %
Plastic Limit : 17 %
Plasticity Index : 22 %

Equivalent Water Content of material passing 425µm sieve : 24.9 %
Liquidity Index : 0.36



Tested by AD
Checked and Approved by

J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623



LIQUID AND PLASTIC LIMITS

Location TP310
Depth (m) 1.60
Sample Type D

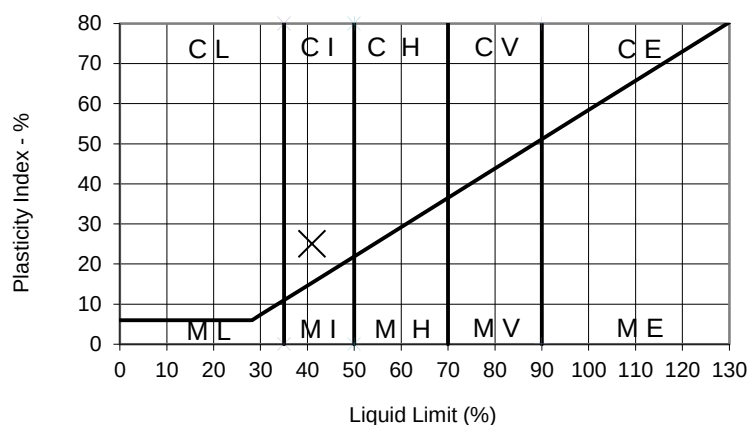
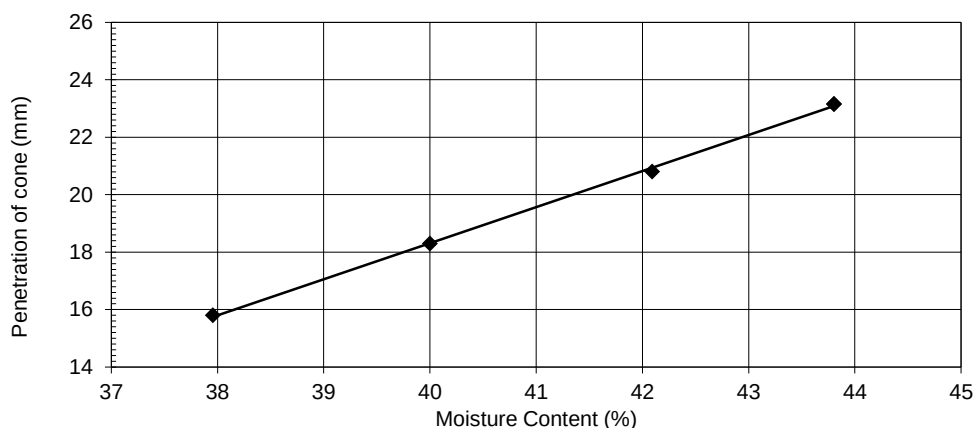
Description:

Orangish brown mottled light grey very sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 25.7 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 41 %
Plastic Limit : 16 %
Plasticity Index : 25 %

Equivalent Water Content of material passing 425µm sieve : 25.7 %
Liquidity Index : 0.39



Tested by AD
Checked and Approved by



J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

**HOGWOOD FARM
41623**

GEOLABS



LIQUID AND PLASTIC LIMITS

Location TP312A
Depth (m) 2.30
Sample Type D

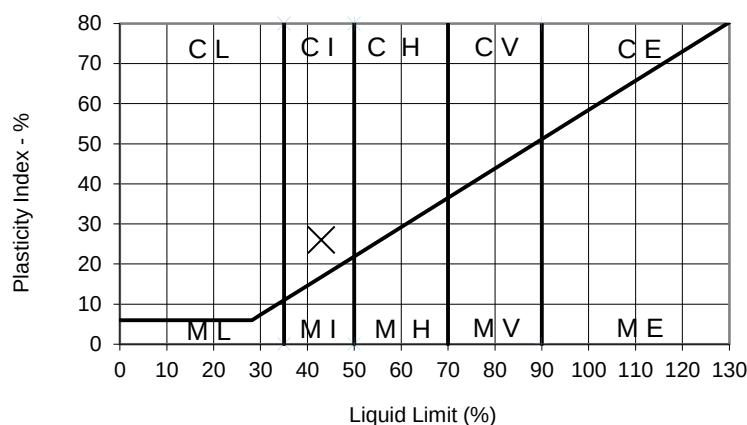
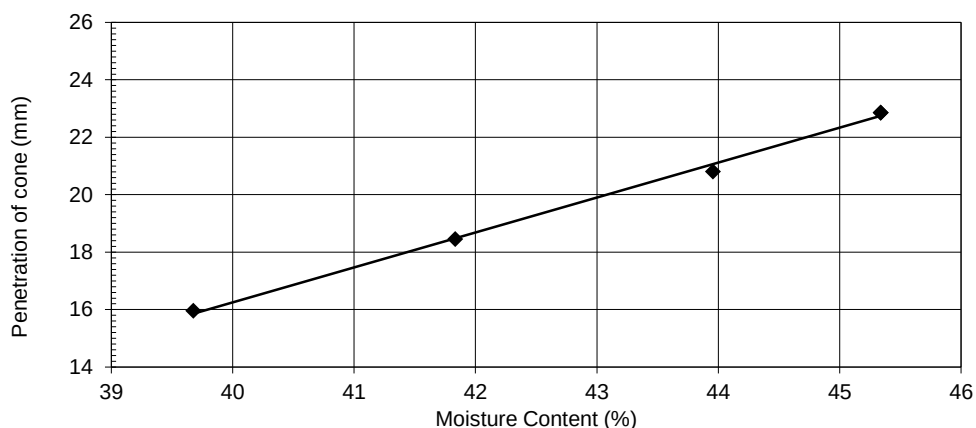
Description:

Brown mottled greyish brown very sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 22.2 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 43 %
Plastic Limit : 17 %
Plasticity Index : 26 %

Equivalent Water Content of material passing 425µm sieve : 22.2 %
Liquidity Index : 0.20



Tested by AD
Checked and Approved by



J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP315
Depth (m) 1.50
Sample Type D

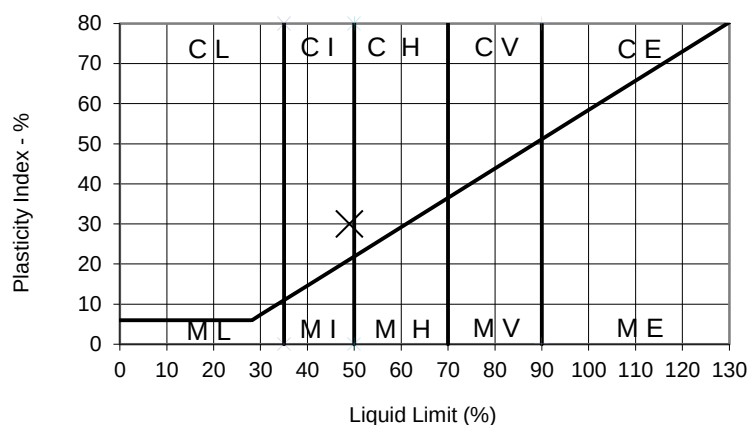
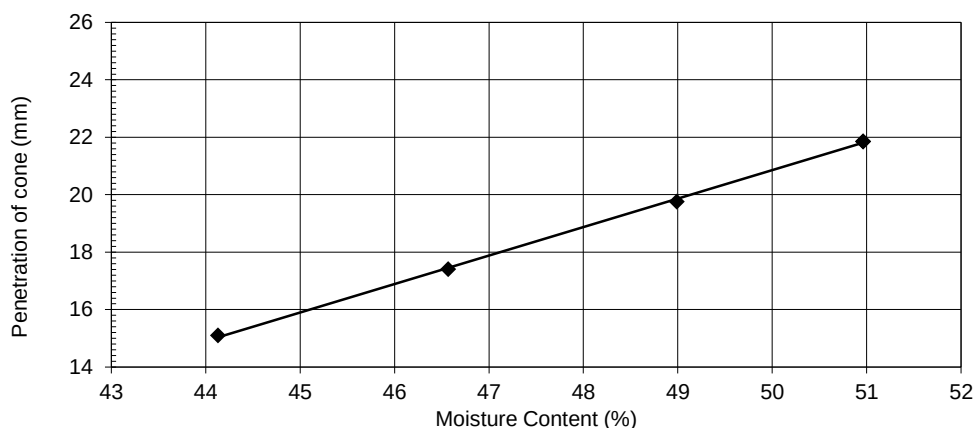
Description:

Orange mottled light grey sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 28.6 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 49 %
Plastic Limit : 19 %
Plasticity Index : 30 %

Equivalent Water Content of material passing 425µm sieve : 28.6 %
Liquidity Index : 0.32



Tested by AD
Checked and Approved by



J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP318
Depth (m) 2.30
Sample Type D

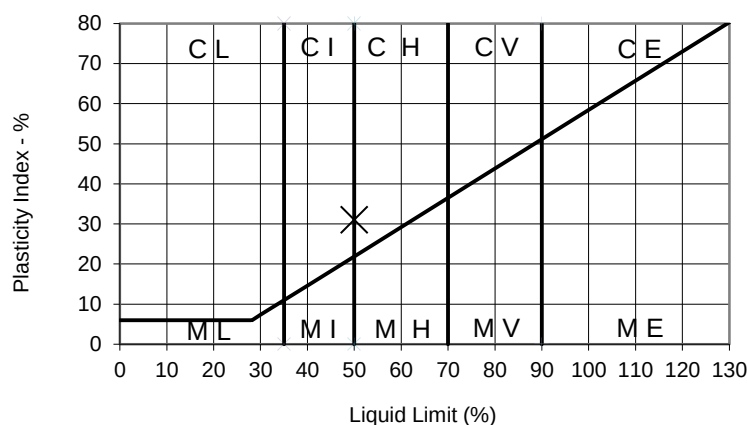
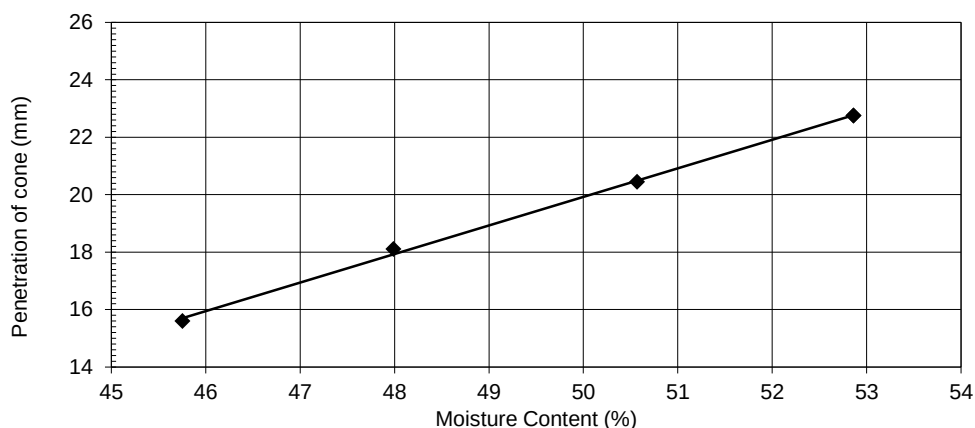
Description:

Brown mottled light grey sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 28.7 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 50 %
Plastic Limit : 19 %
Plasticity Index : 31 %

Equivalent Water Content of material passing 425µm sieve : 28.7 %
Liquidity Index : 0.31



Tested by AD
Checked and Approved by

J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP320
Depth (m) 1.70
Sample Type D

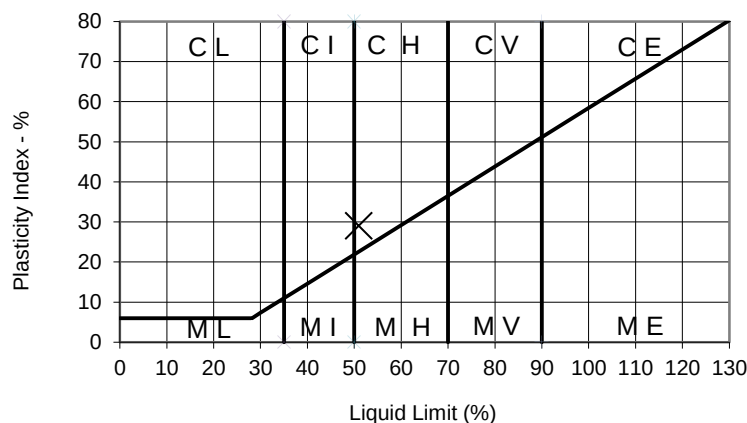
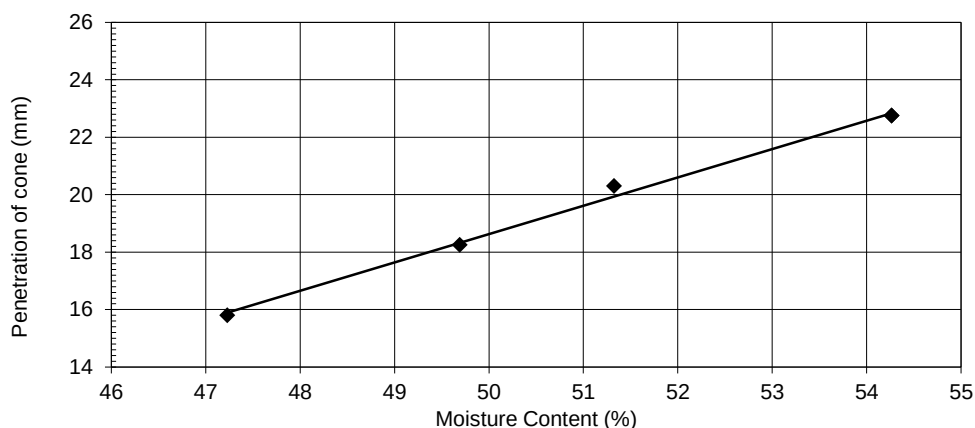
Description:

Brown mottled light grey sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 27.9 %
 Estimated percentage passing 425µm sieve : 100 %
 Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 51 %
 Plastic Limit : 22 %
 Plasticity Index : 29 %

Equivalent Water Content of material passing 425µm sieve : 27.9 %
 Liquidity Index : 0.20



Tested by AD
Checked and Approved by

J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP325
Depth (m) 1.20
Sample Type D

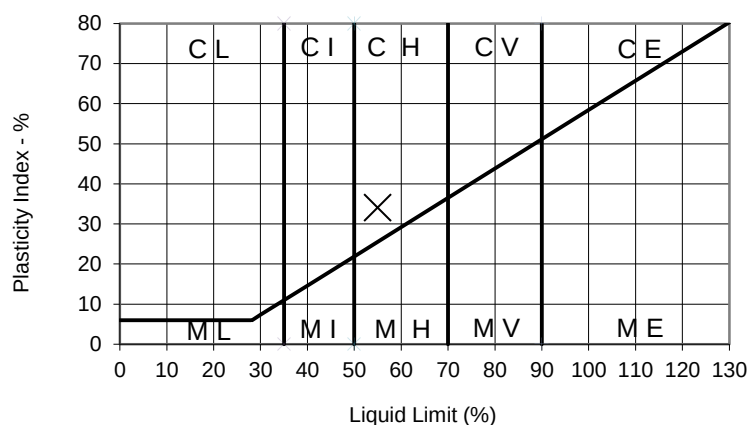
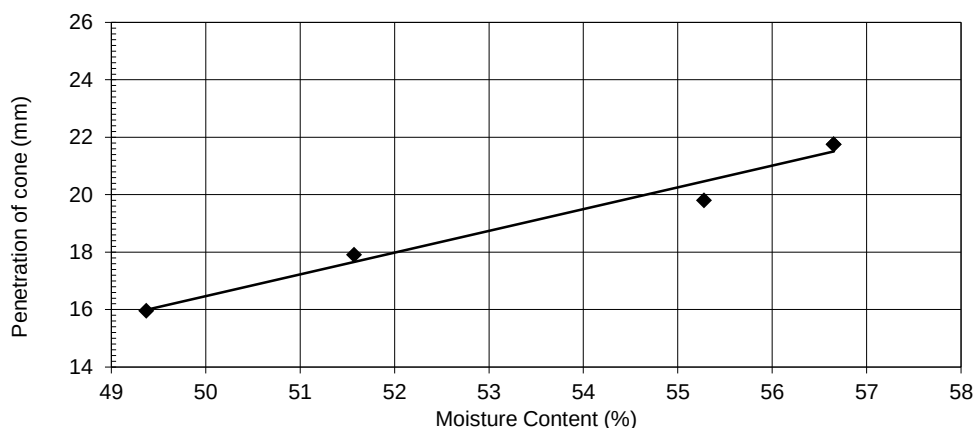
Description:

Brown mottled orange and light grey sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 26.3 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 55 %
Plastic Limit : 21 %
Plasticity Index : 34 %

Equivalent Water Content of material passing 425µm sieve : 26.3 %
Liquidity Index : 0.16



Tested by AD
Checked and Approved by

J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP329
Depth (m) 3.20
Sample Type D

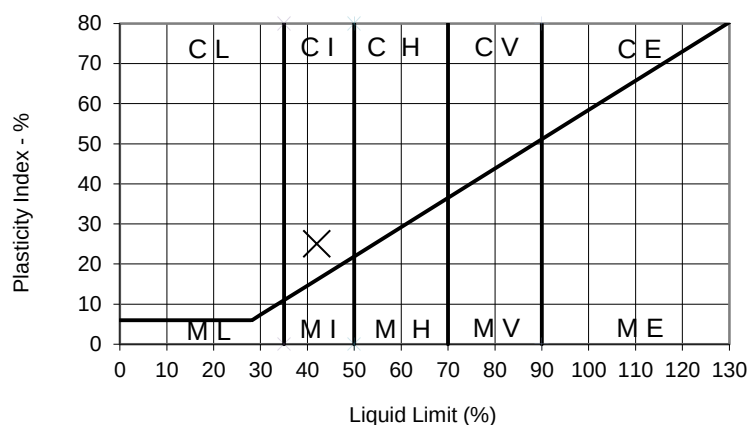
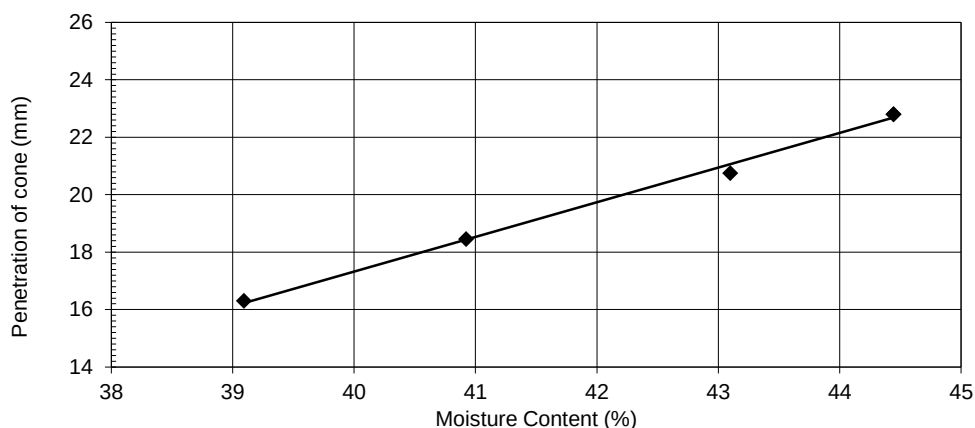
Description:

Brown very sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 23.7 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 42 %
Plastic Limit : 17 %
Plasticity Index : 25 %

Equivalent Water Content of material passing 425µm sieve : 23.7 %
Liquidity Index : 0.27



Tested by AD
Checked and Approved by

J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623



LIQUID AND PLASTIC LIMITS

Location TP343
Depth (m) 1.10
Sample Type D

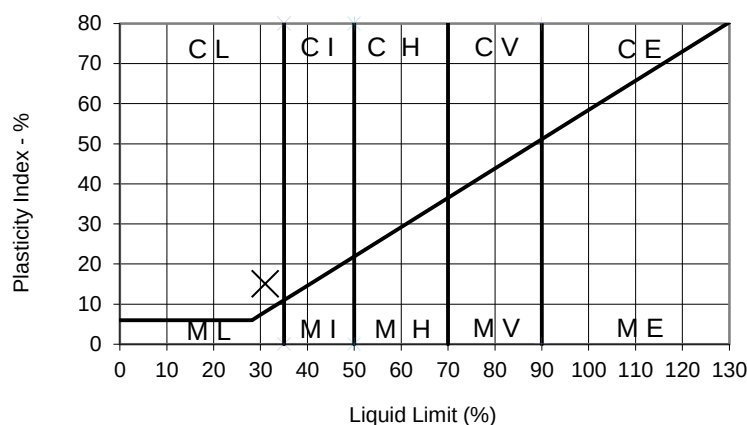
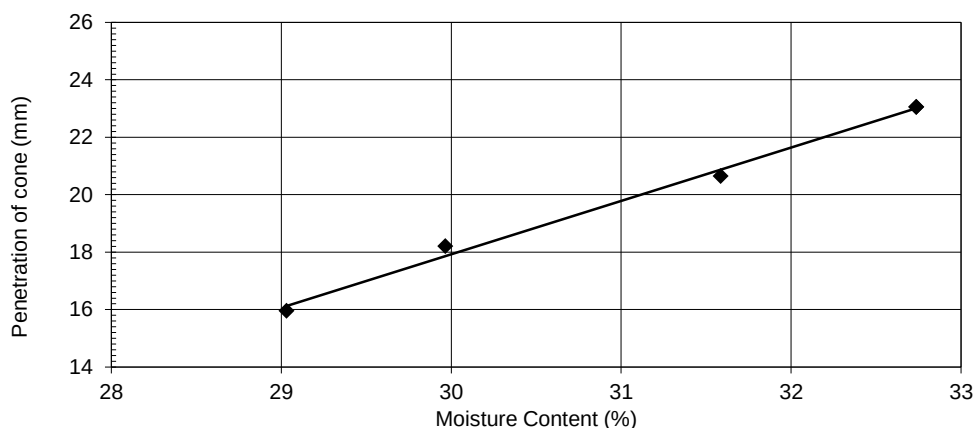
Description:

Greyish brown mottled light brown and orangish brown very sandy CLAY with rare fine gravel.

Preparation : Sample as received with discrete coarse particles removed by hand.

Water Content : (BS EN ISO 17892-1:2014) 24.1 %
Estimated percentage passing 425µm sieve : 99 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 31 %
Plastic Limit : 16 %
Plasticity Index : 15 %

Equivalent Water Content of material passing 425µm sieve : 24.4 %
Liquidity Index : 0.56



Tested by AD
Checked and Approved by



J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

**HOGWOOD FARM
41623**



LIQUID AND PLASTIC LIMITS

Location TP345
Depth (m) 2.70
Sample Type D

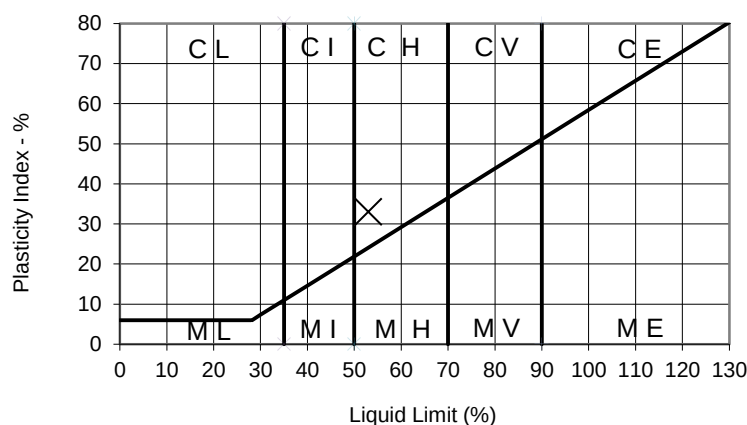
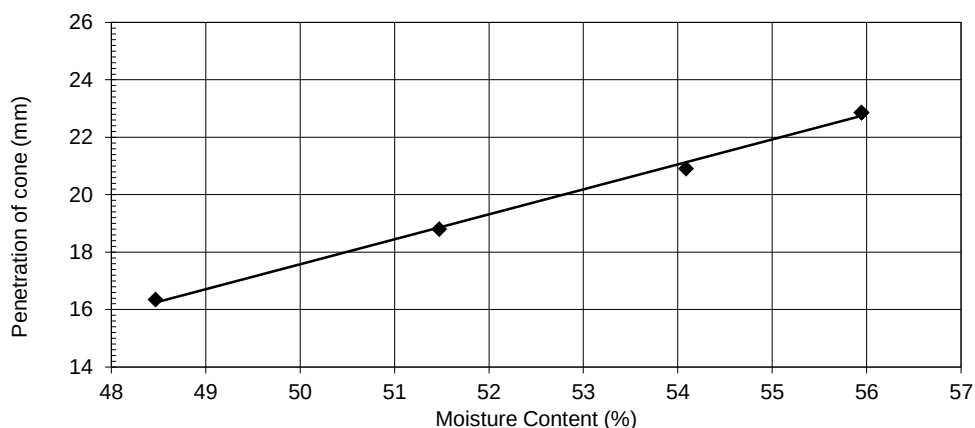
Description:

Brownish grey mottled brown sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 27.1 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 53 %
Plastic Limit : 20 %
Plasticity Index : 33 %

Equivalent Water Content of material passing 425µm sieve : 27.1 %
Liquidity Index : 0.22



Tested by AD
Checked and Approved by



J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP348
Depth (m) 3.00
Sample Type D

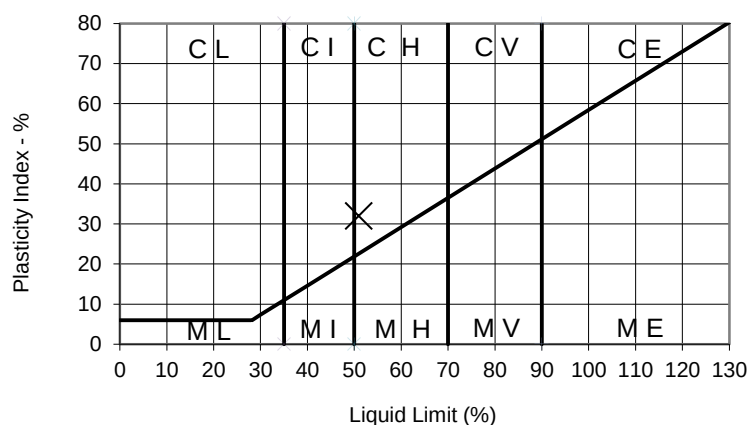
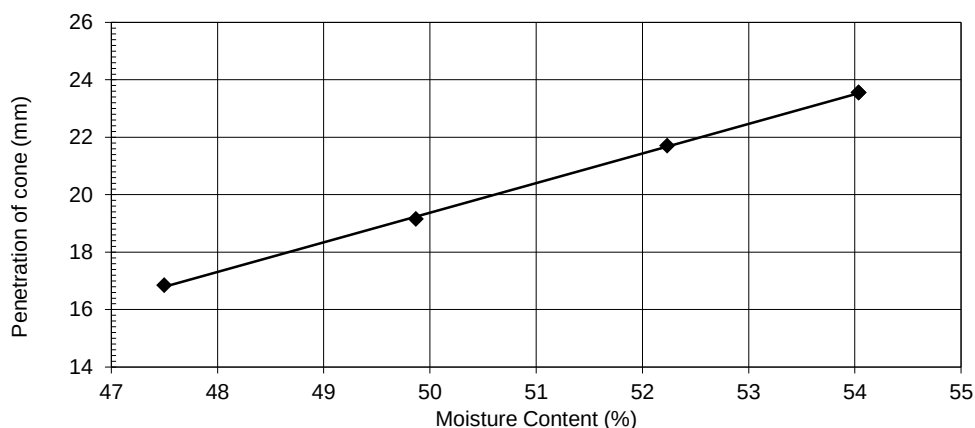
Description:

Light brown and greyish brown mottled sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 30.4 %
 Estimated percentage passing 425µm sieve : 100 %
 Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 51 %
 Plastic Limit : 19 %
 Plasticity Index : 32 %

Equivalent Water Content of material passing 425µm sieve : 30.4 %
 Liquidity Index : 0.36



Tested by AD
Checked and Approved by



J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

**HOGWOOD FARM
41623**

GEOLABS



LIQUID AND PLASTIC LIMITS

Location TP350
Depth (m) 1.50
Sample Type D

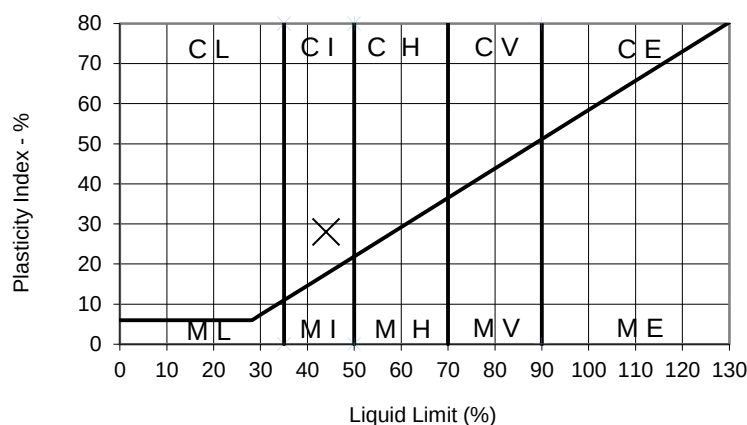
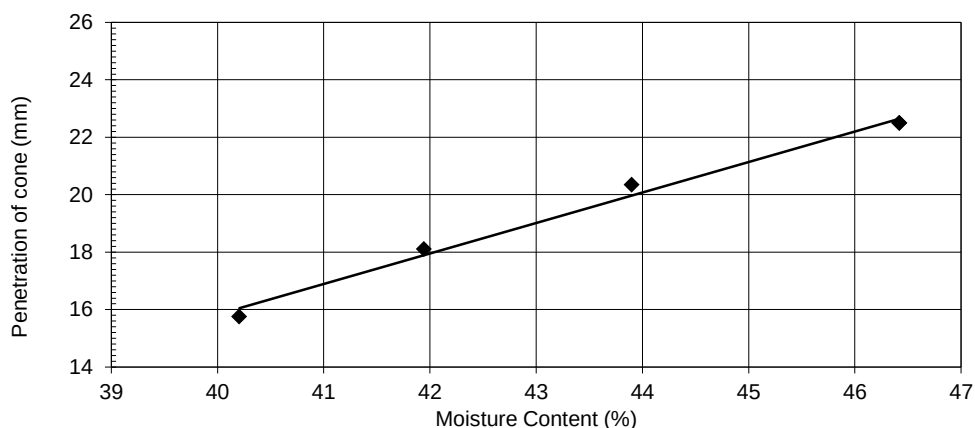
Description:

Brown mottled greyish brown very sandy CLAY.

Preparation : Sample as received.

Water Content : (BS EN ISO 17892-1:2014) 24.4 %
Estimated percentage passing 425µm sieve : 100 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 44 %
Plastic Limit : 16 %
Plasticity Index : 28 %

Equivalent Water Content of material passing 425µm sieve : 24.4 %
Liquidity Index : 0.30



Tested by AD
Checked and Approved by

J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

HOGWOOD FARM
41623

GEOLABS

LIQUID AND PLASTIC LIMITS

Location TP360
Depth (m) 1.00
Sample Type D

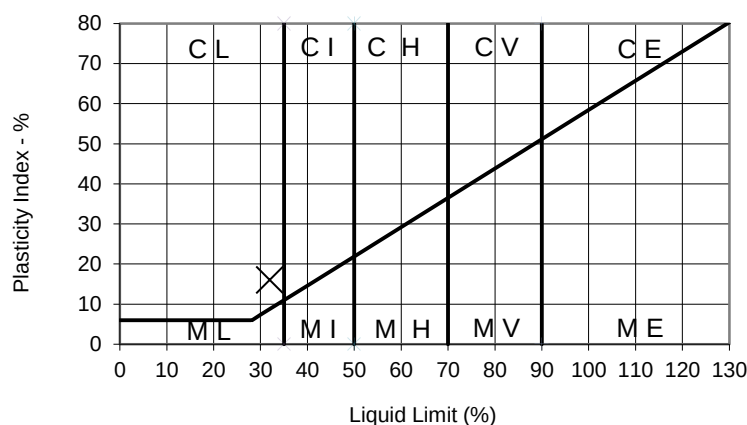
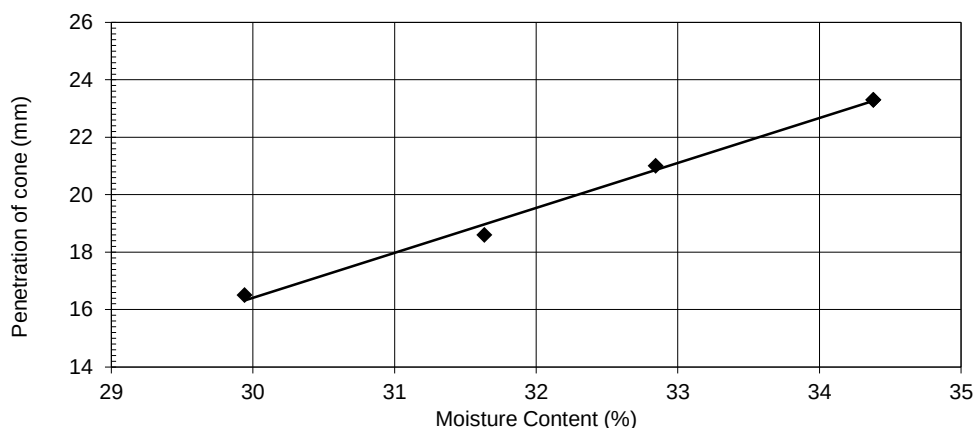
Description:

Brown mottled orange, light grey and dark brown very sandy
CLAY with rare fine gravel.

Preparation : Sample as received with discrete coarse particles removed by hand.

Water Content : (BS EN ISO 17892-1:2014) 22.0 %
Estimated percentage passing 425µm sieve : 99 %
Liquid Limit - Fall Cone 4 point Method (cone angle 30°) with increasing water content : 32 %
Plastic Limit : 16 %
Plasticity Index : 16 %

Equivalent Water Content of material passing 425µm sieve : 22.3 %
Liquidity Index : 0.39



Tested by AD
Checked and Approved by



J A Reynolds - Director
19/11/2021

Project Number:

GEO / 34197

Project Name:

**HOGWOOD FARM
41623**

GEOLABS

